

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: P257093

Luminaire Tested: **HGL-S-UF-30L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257093
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-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4879.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

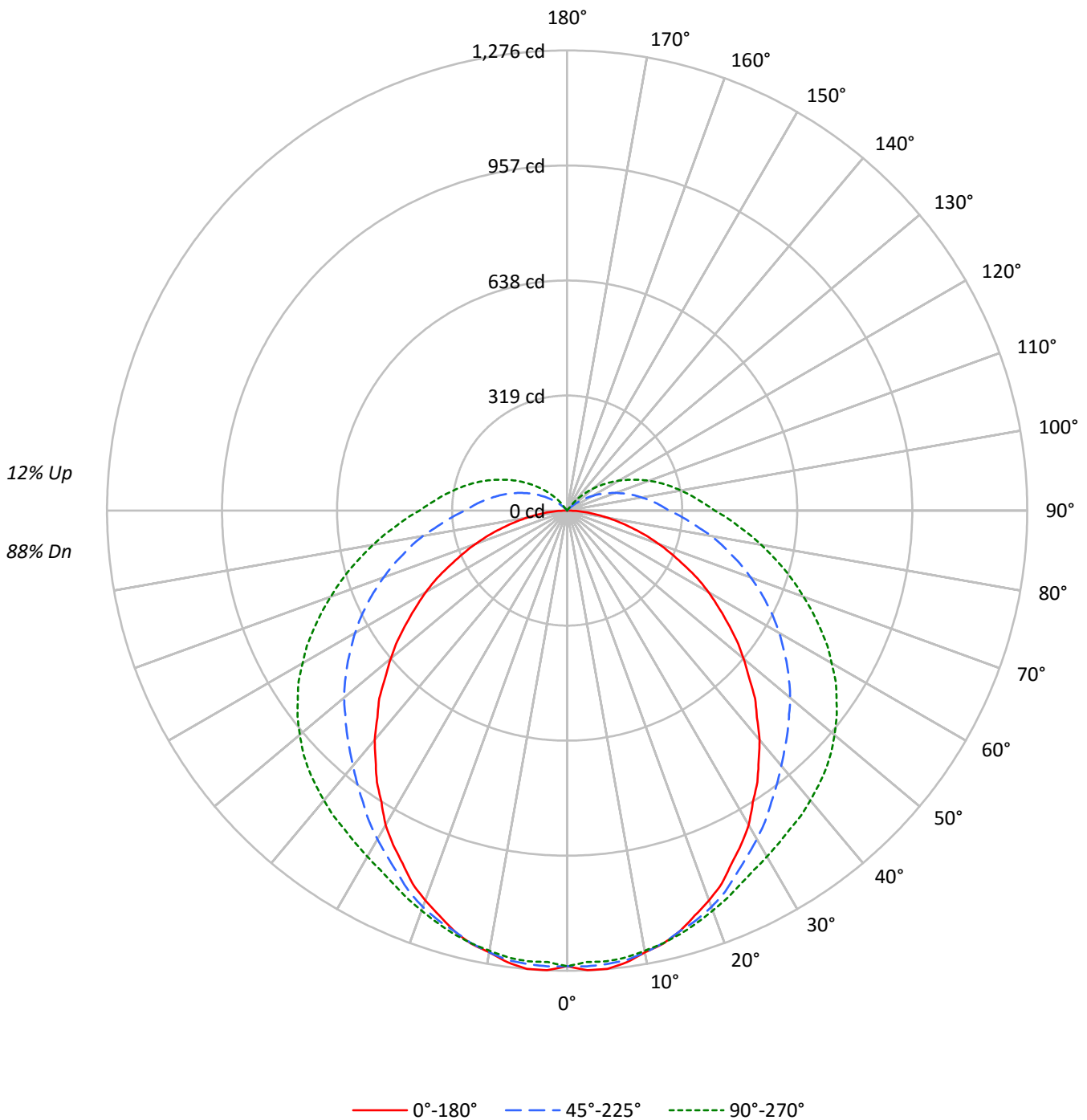
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7509	7229	7110
10°	7399	7007	6840
15°	7315	6743	6584
20°	7153	6524	6329
25°	6950	6236	6100
30°	6775	5990	5950
35°	6529	5746	5860
40°	6295	5543	5821
45°	6038	5398	5791
50°	5743	5292	5733
55°	5461	5174	5659
60°	5201	5072	5564
65°	4815	4970	5448
70°	4478	4875	5323
75°	4017	4783	5232
80°	3517	4776	5164
85°	2920	4787	5154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	2.5
10°-20°	340.3	7.0
20°-30°	510.6	10.5
30°-40°	619.9	12.7
40°-50°	669.6	13.7
50°-60°	655.8	13.4
60°-70°	581.7	11.9
70°-80°	465.9	9.5
80°-90°	337.7	6.9
90°-100°	238.0	4.9
100°-110°	166.0	3.4
110°-120°	102.8	2.1
120°-130°	52.3	1.1
130°-140°	18.1	0.4
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	970.6	19.9
0°-40°	1590.5	32.6
0°-60°	2915.9	59.8
0°-90°	4301.1	88.2
90°-120°	506.8	10.4
90°-150°	578.0	11.8
90°-180°	578.0	11.8
0°-180°	4879.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1276	1264	1262	1256	1254	121
15°	1208	1199	1208	1218	1215	340
25°	1079	1082	1111	1129	1141	498
35°	919	925	987	1046	1078	574
45°	737	756	865	972	1014	566
55°	543	589	744	866	912	487
65°	356	441	611	729	774	356
75°	186	303	471	584	622	198
85°	50	186	340	441	474	54
90°	2	136	282	376	409	4
95°	0	107	246	334	362	0
105°	0	57	177	255	281	0
115°	0	18	112	180	202	0
125°	0	0	54	110	130	0
135°	0	0	9	48	63	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°	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1275.6	1274.1	1269.5	1265.0	1263.5	1263.5	1262.0	1260.5	1260.5	1259.0	1265.0
5°	1275.6	1274.1	1269.5	1263.5	1262.0	1263.5	1262.0	1259.0	1259.0	1257.5	1262.0
7.5°	1263.5	1260.5	1257.5	1252.9	1251.4	1251.4	1249.9	1249.9	1249.9	1249.9	1257.5
10°	1243.9	1242.4	1239.3	1234.8	1234.8	1233.3	1233.3	1234.8	1234.8	1236.3	1243.9
12.5°	1230.3	1227.3	1222.7	1218.2	1216.7	1216.7	1215.2	1213.7	1215.2	1216.7	1228.8
15°	1207.6	1206.1	1203.1	1198.6	1198.6	1198.6	1198.6	1197.1	1197.1	1198.6	1207.6
17.5°	1177.5	1174.4	1172.9	1169.9	1171.4	1172.9	1174.4	1172.9	1175.9	1180.5	1191.0
20°	1150.3	1147.3	1144.2	1139.7	1139.7	1141.2	1142.7	1142.7	1150.3	1156.3	1169.9
22.5°	1120.1	1118.6	1115.6	1114.1	1114.1	1115.6	1115.6	1112.5	1117.1	1126.1	1144.2
25°	1079.3	1077.8	1076.3	1076.3	1079.3	1082.4	1083.9	1085.4	1089.9	1095.9	1111.0
27.5°	1044.6	1043.1	1040.1	1037.1	1040.1	1043.1	1044.6	1047.6	1056.7	1068.8	1080.8
30°	1006.9	1005.4	1003.9	1003.9	1006.9	1008.4	1009.9	1008.4	1020.5	1038.6	1052.2
32.5°	958.6	957.1	958.6	958.6	966.1	970.6	973.7	975.2	985.7	1002.3	1022.0
35°	919.3	919.3	917.8	920.8	922.3	925.4	928.4	935.9	951.0	967.6	987.2
37.5°	872.5	872.5	872.5	880.1	886.1	887.6	889.1	898.2	917.8	934.4	955.5
40°	830.3	830.3	830.3	833.3	837.8	842.3	848.4	858.9	878.6	902.7	923.8
42.5°	778.9	780.4	783.5	791.0	797.0	800.1	804.6	821.2	842.3	871.0	893.7
45°	736.7	735.2	738.2	744.2	750.2	756.3	763.8	781.9	807.6	839.3	865.0
47.5°	683.8	685.3	688.4	698.9	706.5	714.0	723.1	744.2	774.4	806.1	834.8
50°	638.5	640.1	647.6	653.6	661.2	670.2	680.8	708.0	741.2	772.9	807.6
52.5°	593.3	594.8	600.8	605.3	617.4	628.0	641.6	671.8	706.5	741.2	775.9
55°	543.4	546.5	551.0	561.6	576.7	588.7	603.8	637.0	671.8	709.5	744.2
57.5°	496.6	498.2	505.7	516.3	534.4	549.5	567.6	602.3	640.1	676.3	711.0
60°	452.9	455.9	460.4	474.0	498.2	513.2	531.4	567.6	606.8	643.1	679.3
62.5°	407.6	410.6	416.6	431.7	460.4	477.0	496.6	534.4	573.6	609.9	646.1
65°	356.3	359.3	368.3	388.0	422.7	440.8	460.4	499.7	537.4	575.1	611.4
67.5°	312.5	314.0	326.1	347.2	383.4	406.1	427.2	464.9	502.7	540.4	576.7
70°	270.2	273.2	282.3	311.0	350.2	368.3	391.0	431.7	469.5	507.2	541.9
72.5°	227.9	231.0	244.5	276.2	317.0	336.6	354.7	398.5	436.3	472.5	507.2
75°	185.7	190.2	208.3	244.5	283.8	303.4	323.0	362.3	403.1	437.8	471.0
77.5°	147.9	152.5	175.1	212.8	252.1	271.7	291.3	329.1	366.8	404.6	439.3
80°	111.7	117.7	144.9	182.7	221.9	241.5	259.6	298.9	335.1	369.8	406.1
82.5°	80.0	87.6	119.3	155.5	194.7	212.8	231.0	268.7	304.9	338.1	369.8
85°	49.8	63.4	95.1	129.8	167.6	185.7	203.8	241.5	276.2	309.5	339.6
87.5°	24.2	42.3	72.5	105.7	141.9	160.0	178.1	214.4	247.6	280.8	311.0
90°	1.5	24.2	51.3	83.0	119.3	135.9	154.0	188.7	221.9	253.6	282.3
92.5°	0.0	15.1	40.8	70.9	104.2	122.3	138.9	173.6	205.3	237.0	264.2
95°	0.0	7.5	31.7	60.4	92.1	107.2	123.8	157.0	188.7	218.9	246.1
97.5°	0.0	1.5	22.6	48.3	78.5	95.1	110.2	141.9	173.6	202.3	227.9
100°	0.0	0.0	15.1	39.2	66.4	81.5	96.6	126.8	157.0	184.2	209.8
102.5°	0.0	0.0	7.5	30.2	55.9	69.4	83.0	113.2	141.9	169.1	193.2
105°	0.0	0.0	1.5	21.1	45.3	57.4	70.9	98.1	126.8	152.5	176.6
107.5°	0.0	0.0	0.0	12.1	34.7	46.8	58.9	84.5	111.7	135.9	158.5
110°	0.0	0.0	0.0	6.0	25.7	36.2	48.3	72.5	96.6	120.8	143.4



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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	1.5	16.6	27.2	37.7	60.4	83.0	105.7	126.8
115°	0.0	0.0	0.0	0.0	9.1	18.1	27.2	48.3	69.4	92.1	111.7
117.5°	0.0	0.0	0.0	0.0	3.0	10.6	18.1	37.7	57.4	77.0	96.6
120°	0.0	0.0	0.0	0.0	0.0	4.5	10.6	27.2	45.3	63.4	81.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	16.6	33.2	51.3	67.9
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	22.6	39.2	54.3
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	13.6	27.2	40.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	16.6	28.7
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	9.1	18.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.1
137.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
140°	1.5	1.5	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°	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1269.5	1263.5	1263.5	1262.0	1260.5	1259.0	1256.0	1254.4	1251.4	1252.9
5°	1266.5	1260.5	1260.5	1257.5	1256.0	1256.0	1254.4	1254.4	1252.9	1254.4
7.5°	1262.0	1254.4	1254.4	1251.4	1249.9	1248.4	1248.4	1248.4	1248.4	1249.9
10°	1249.9	1245.4	1245.4	1243.9	1242.4	1239.3	1237.8	1239.3	1237.8	1239.3
12.5°	1233.3	1228.8	1231.8	1231.8	1231.8	1228.8	1227.3	1228.8	1227.3	1228.8
15°	1212.2	1210.7	1215.2	1216.7	1218.2	1216.7	1215.2	1215.2	1215.2	1215.2
17.5°	1191.0	1189.5	1195.6	1198.6	1198.6	1198.6	1198.6	1197.1	1197.1	1198.6
20°	1172.9	1166.9	1169.9	1175.9	1177.5	1177.5	1179.0	1180.5	1180.5	1180.5
22.5°	1147.3	1144.2	1145.8	1150.3	1153.3	1154.8	1159.3	1159.3	1160.8	1162.4
25°	1117.1	1121.6	1123.1	1127.6	1129.1	1132.2	1138.2	1141.2	1141.2	1141.2
27.5°	1085.4	1094.4	1100.5	1103.5	1106.5	1109.5	1117.1	1123.1	1123.1	1123.1
30°	1055.2	1064.2	1076.3	1082.4	1085.4	1088.4	1099.0	1106.5	1108.0	1108.0
32.5°	1023.5	1035.6	1053.7	1062.7	1064.2	1068.8	1082.4	1091.4	1092.9	1092.9
35°	996.3	1011.4	1031.0	1043.1	1046.1	1050.7	1065.7	1076.3	1077.8	1077.8
37.5°	972.2	987.2	1008.4	1025.0	1028.0	1034.0	1049.1	1062.7	1064.2	1065.7
40°	945.0	963.1	984.2	1003.9	1009.9	1015.9	1032.5	1046.1	1049.1	1049.1
42.5°	917.8	940.5	961.6	984.2	991.8	997.8	1015.9	1029.5	1032.5	1032.5
45°	889.1	917.8	938.9	963.1	972.2	978.2	994.8	1009.9	1014.4	1014.4
47.5°	863.5	893.7	914.8	938.9	948.0	957.1	972.2	987.2	991.8	993.3
50°	834.8	868.0	889.1	911.8	923.8	932.9	948.0	964.6	969.1	967.6
52.5°	806.1	837.8	860.4	884.6	896.7	905.7	919.3	937.4	942.0	942.0
55°	775.9	807.6	831.8	854.4	866.5	878.6	892.1	907.2	913.3	911.8
57.5°	745.7	774.4	800.1	824.2	834.8	846.9	860.4	875.5	880.1	883.1
60°	714.0	739.7	768.4	791.0	801.6	813.7	827.2	840.8	848.4	846.9
62.5°	679.3	708.0	735.2	756.3	766.9	778.9	792.5	804.6	810.6	813.7
65°	644.6	671.8	697.4	720.1	729.1	741.2	756.3	765.3	772.9	774.4
67.5°	608.4	635.5	661.2	685.3	694.4	705.0	718.5	727.6	735.2	736.7
70°	572.1	600.8	626.5	649.1	658.2	667.2	680.8	689.9	697.4	697.4
72.5°	537.4	566.1	590.2	612.9	621.9	629.5	643.1	652.1	658.2	659.7
75°	502.7	529.9	554.0	576.7	584.2	593.3	605.3	614.4	620.4	621.9
77.5°	468.0	496.6	519.3	540.4	548.0	555.5	569.1	576.7	582.7	582.7
80°	434.8	461.9	484.6	504.2	510.2	519.3	531.4	538.9	543.4	546.5
82.5°	403.1	428.7	449.8	468.0	477.0	483.1	495.1	502.7	507.2	510.2
85°	368.3	395.5	416.6	434.8	440.8	449.8	460.4	468.0	472.5	474.0
87.5°	336.6	360.8	381.9	403.1	410.6	416.6	427.2	434.8	439.3	442.3
90°	309.5	332.1	351.7	368.3	375.9	383.4	395.5	403.1	407.6	409.1
92.5°	289.8	312.5	330.6	347.2	354.7	360.8	371.4	378.9	383.4	384.9
95°	271.7	292.9	311.0	327.6	333.6	339.6	350.2	356.3	359.3	362.3
97.5°	252.1	274.7	291.3	306.4	314.0	318.5	329.1	335.1	339.6	341.2
100°	234.0	255.1	271.7	288.3	294.4	298.9	309.5	315.5	318.5	320.0
102.5°	215.9	237.0	253.6	268.7	274.7	279.3	288.3	294.4	298.9	300.4
105°	197.8	217.4	234.0	249.1	255.1	259.6	268.7	274.7	279.3	280.8
107.5°	181.1	199.3	215.9	229.5	235.5	240.0	249.1	255.1	259.6	261.2
110°	164.5	181.1	197.8	211.3	217.4	221.9	231.0	235.5	240.0	241.5



TEST NUMBER: P257093

CATALOG NUMBER: HGL-S-UF-30L940-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	146.4	164.5	179.6	193.2	197.8	203.8	211.3	217.4	220.4	221.9
115°	131.3	147.9	161.5	175.1	179.6	184.2	193.2	197.8	202.3	202.3
117.5°	114.7	129.8	144.9	157.0	161.5	166.1	175.1	179.6	182.7	184.2
120°	99.6	113.2	126.8	138.9	144.9	147.9	157.0	161.5	164.5	166.1
122.5°	84.5	98.1	111.7	122.3	126.8	131.3	138.9	143.4	146.4	147.9
125°	69.4	83.0	95.1	105.7	110.2	114.7	120.8	125.3	128.3	129.8
127.5°	55.9	67.9	80.0	89.1	93.6	98.1	104.2	108.7	111.7	113.2
130°	42.3	52.8	64.9	74.0	78.5	81.5	87.6	92.1	95.1	96.6
132.5°	28.7	39.2	49.8	58.9	63.4	66.4	72.5	75.5	78.5	80.0
135°	18.1	27.2	36.2	43.8	48.3	51.3	57.4	60.4	63.4	63.4
137.5°	9.1	16.6	24.2	30.2	33.2	37.7	42.3	45.3	46.8	48.3
140°	3.0	7.5	13.6	18.1	21.1	24.2	28.7	31.7	33.2	34.7
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)