

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: P257088

Luminaire Tested: **HGL-S-UF-30L930-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257088  
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-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT  
Light Source: (336) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4717.4 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

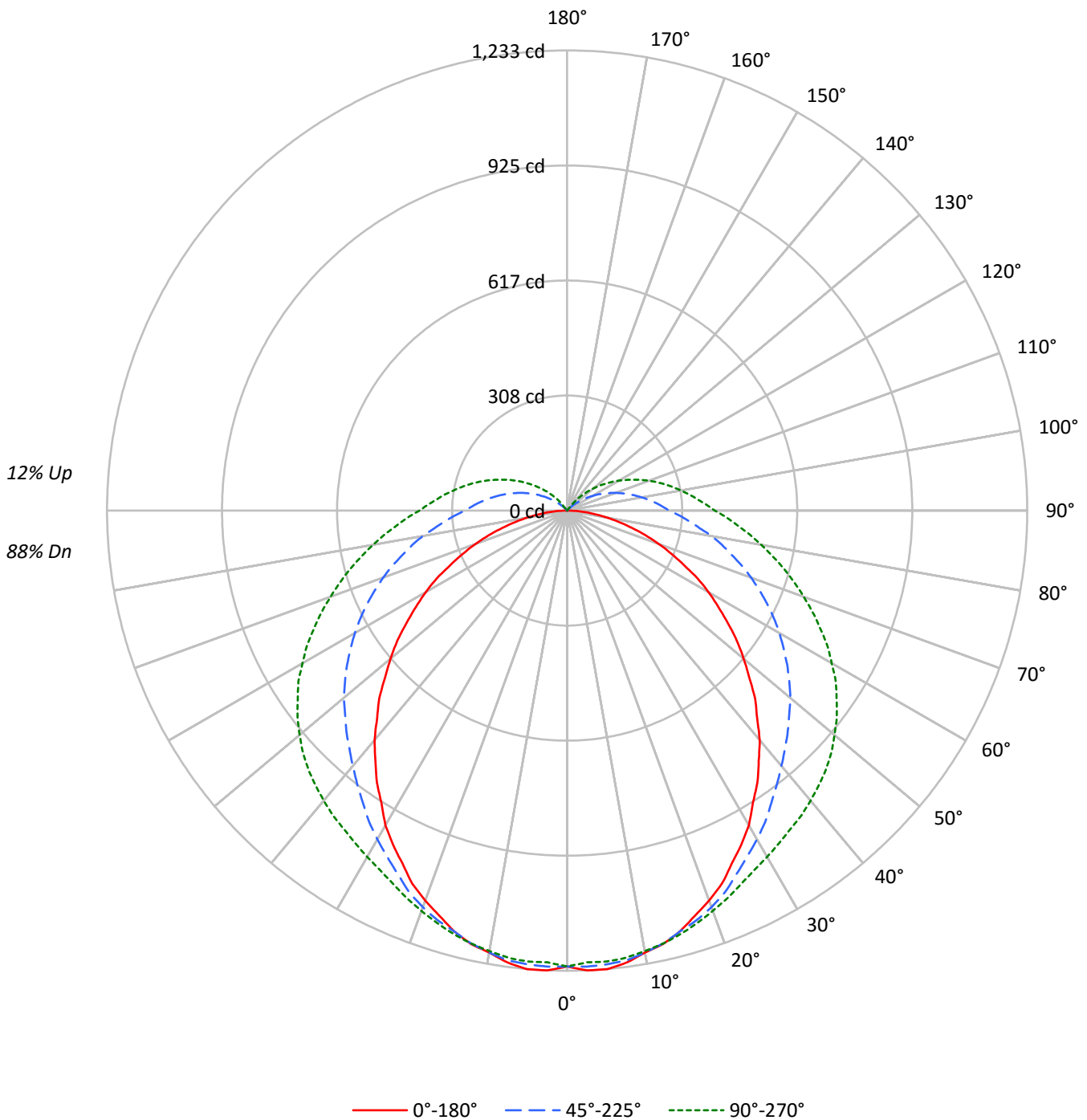
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7172	7172	7172
5°	7260	6989	6875
10°	7153	6775	6614
15°	7072	6520	6366
20°	6916	6308	6119
25°	6720	6029	5898
30°	6551	5791	5753
35°	6313	5555	5666
40°	6086	5359	5628
45°	5837	5219	5599
50°	5553	5116	5542
55°	5280	5003	5471
60°	5029	4904	5379
65°	4655	4805	5267
70°	4331	4714	5147
75°	3883	4624	5059
80°	3400	4617	4992
85°	2826	4629	4983



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.7	2.5
10°-20°	329.0	7.0
20°-30°	493.7	10.5
30°-40°	599.4	12.7
40°-50°	647.4	13.7
50°-60°	634.0	13.4
60°-70°	562.4	11.9
70°-80°	450.5	9.5
80°-90°	326.5	6.9
90°-100°	230.1	4.9
100°-110°	160.5	3.4
110°-120°	99.4	2.1
120°-130°	50.5	1.1
130°-140°	17.5	0.4
140°-150°	0.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	938.4	19.9
0°-40°	1537.8	32.6
0°-60°	2819.2	59.8
0°-90°	4158.5	88.2
90°-120°	490.0	10.4
90°-150°	558.8	11.8
90°-180°	559.0	11.8
0°-180°	4717.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1233	1222	1220	1214	1213	117
15°	1168	1159	1168	1178	1175	328
25°	1044	1046	1074	1092	1103	482
35°	889	895	954	1011	1042	555
45°	712	731	836	940	981	547
55°	525	569	720	838	882	471
65°	344	426	591	705	749	344
75°	180	293	455	565	601	192
85°	48	180	328	426	458	52
90°	2	131	273	363	396	4
95°	0	104	238	323	350	0
105°	0	56	171	247	272	0
115°	0	18	108	174	196	0
125°	0	0	52	106	126	0
135°	0	0	9	47	61	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°	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6
2.5°	1233.3	1231.8	1227.4	1223.1	1221.6	1221.6	1220.2	1218.7	1218.7	1217.2	1223.1
5°	1233.3	1231.8	1227.4	1221.6	1220.2	1221.6	1220.2	1217.2	1217.2	1215.8	1220.2
7.5°	1221.6	1218.7	1215.8	1211.4	1209.9	1209.9	1208.5	1208.5	1208.5	1208.5	1215.8
10°	1202.6	1201.2	1198.3	1193.9	1193.9	1192.4	1192.4	1193.9	1193.9	1195.3	1202.6
12.5°	1189.5	1186.6	1182.2	1177.8	1176.4	1176.4	1174.9	1173.4	1174.9	1176.4	1188.0
15°	1167.6	1166.2	1163.2	1158.9	1158.9	1158.9	1158.9	1157.4	1157.4	1158.9	1167.6
17.5°	1138.4	1135.5	1134.0	1131.1	1132.6	1134.0	1135.5	1134.0	1137.0	1141.3	1151.6
20°	1112.1	1109.2	1106.3	1101.9	1101.9	1103.4	1104.9	1104.9	1112.1	1118.0	1131.1
22.5°	1083.0	1081.5	1078.6	1077.1	1077.1	1078.6	1078.6	1075.7	1080.0	1088.8	1106.3
25°	1043.6	1042.1	1040.6	1040.6	1043.6	1046.5	1047.9	1049.4	1053.8	1059.6	1074.2
27.5°	1010.0	1008.5	1005.6	1002.7	1005.6	1008.5	1010.0	1012.9	1021.7	1033.3	1045.0
30°	973.5	972.0	970.6	970.6	973.5	975.0	976.4	975.0	986.6	1004.1	1017.3
32.5°	926.8	925.3	926.8	926.8	934.1	938.5	941.4	942.8	953.1	969.1	988.1
35°	888.8	888.8	887.4	890.3	891.8	894.7	897.6	904.9	919.5	935.5	954.5
37.5°	843.6	843.6	843.6	850.9	856.7	858.2	859.7	868.4	887.4	903.4	923.9
40°	802.7	802.7	802.7	805.7	810.0	814.4	820.2	830.5	849.4	872.8	893.2
42.5°	753.1	754.6	757.5	764.8	770.6	773.5	777.9	794.0	814.4	842.1	864.0
45°	712.2	710.8	713.7	719.5	725.4	731.2	738.5	756.0	780.8	811.5	836.3
47.5°	661.2	662.6	665.5	675.8	683.1	690.3	699.1	719.5	748.7	779.4	807.1
50°	617.4	618.8	626.1	632.0	639.3	648.0	658.2	684.5	716.6	747.3	780.8
52.5°	573.6	575.0	580.9	585.3	596.9	607.2	620.3	649.5	683.1	716.6	750.2
55°	525.4	528.3	532.7	542.9	557.5	569.2	583.8	615.9	649.5	686.0	719.5
57.5°	480.2	481.6	488.9	499.2	516.7	531.3	548.8	582.3	618.8	653.9	687.4
60°	437.9	440.8	445.2	458.3	481.6	496.2	513.7	548.8	586.7	621.8	656.8
62.5°	394.1	397.0	402.8	417.4	445.2	461.2	480.2	516.7	554.6	589.6	624.7
65°	344.4	347.4	356.1	375.1	408.7	426.2	445.2	483.1	519.6	556.1	591.1
67.5°	302.1	303.6	315.3	335.7	370.7	392.6	413.0	449.5	486.0	522.5	557.5
70°	261.3	264.2	272.9	300.7	338.6	356.1	378.0	417.4	453.9	490.4	524.0
72.5°	220.4	223.3	236.4	267.1	306.5	325.5	343.0	385.3	421.8	456.8	490.4
75°	179.5	183.9	201.4	236.4	274.4	293.4	312.3	350.3	389.7	423.3	455.4
77.5°	143.0	147.4	169.3	205.8	243.7	262.7	281.7	318.2	354.7	391.1	424.7
80°	108.0	113.8	140.1	176.6	214.5	233.5	251.0	289.0	324.0	357.6	392.6
82.5°	77.4	84.7	115.3	150.3	188.3	205.8	223.3	259.8	294.8	326.9	357.6
85°	48.2	61.3	91.9	125.5	162.0	179.5	197.0	233.5	267.1	299.2	328.4
87.5°	23.4	40.9	70.1	102.2	137.2	154.7	172.2	207.3	239.4	271.5	300.7
90°	1.5	23.4	49.6	80.3	115.3	131.4	148.9	182.4	214.5	245.2	272.9
92.5°	0.0	14.6	39.4	68.6	100.7	118.2	134.3	167.8	198.5	229.1	255.4
95°	0.0	7.3	30.6	58.4	89.0	103.6	119.7	151.8	182.4	211.6	237.9
97.5°	0.0	1.5	21.9	46.7	75.9	91.9	106.5	137.2	167.8	195.6	220.4
100°	0.0	0.0	14.6	37.9	64.2	78.8	93.4	122.6	151.8	178.1	202.9
102.5°	0.0	0.0	7.3	29.2	54.0	67.1	80.3	109.5	137.2	163.5	186.8
105°	0.0	0.0	1.5	20.4	43.8	55.5	68.6	94.9	122.6	147.4	170.8
107.5°	0.0	0.0	0.0	11.7	33.6	45.2	56.9	81.7	108.0	131.4	153.2
110°	0.0	0.0	0.0	5.8	24.8	35.0	46.7	70.1	93.4	116.8	138.7



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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	16.1	26.3	36.5	58.4	80.3	102.2	122.6
115°	0.0	0.0	0.0	0.0	8.8	17.5	26.3	46.7	67.1	89.0	108.0
117.5°	0.0	0.0	0.0	0.0	2.9	10.2	17.5	36.5	55.5	74.4	93.4
120°	0.0	0.0	0.0	0.0	0.0	4.4	10.2	26.3	43.8	61.3	78.8
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	16.1	32.1	49.6	65.7
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	21.9	37.9	52.5
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	13.1	26.3	39.4
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	16.1	27.7
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	8.8	17.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	8.8
137.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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°	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6	1221.6
2.5°	1227.4	1221.6	1221.6	1220.2	1218.7	1217.2	1214.3	1212.9	1209.9	1211.4
5°	1224.5	1218.7	1218.7	1215.8	1214.3	1214.3	1212.9	1212.9	1211.4	1212.9
7.5°	1220.2	1212.9	1212.9	1209.9	1208.5	1207.0	1207.0	1207.0	1207.0	1208.5
10°	1208.5	1204.1	1204.1	1202.6	1201.2	1198.3	1196.8	1198.3	1196.8	1198.3
12.5°	1192.4	1188.0	1191.0	1191.0	1191.0	1188.0	1186.6	1188.0	1186.6	1188.0
15°	1172.0	1170.5	1174.9	1176.4	1177.8	1176.4	1174.9	1174.9	1174.9	1174.9
17.5°	1151.6	1150.1	1155.9	1158.9	1158.9	1158.9	1158.9	1157.4	1157.4	1158.9
20°	1134.0	1128.2	1131.1	1137.0	1138.4	1138.4	1139.9	1141.3	1141.3	1141.3
22.5°	1109.2	1106.3	1107.8	1112.1	1115.1	1116.5	1120.9	1120.9	1122.4	1123.8
25°	1080.0	1084.4	1085.9	1090.3	1091.7	1094.6	1100.5	1103.4	1103.4	1103.4
27.5°	1049.4	1058.1	1064.0	1066.9	1069.8	1072.7	1080.0	1085.9	1085.9	1085.9
30°	1020.2	1029.0	1040.6	1046.5	1049.4	1052.3	1062.5	1069.8	1071.3	1071.3
32.5°	989.5	1001.2	1018.7	1027.5	1029.0	1033.3	1046.5	1055.2	1056.7	1056.7
35°	963.3	977.9	996.8	1008.5	1011.4	1015.8	1030.4	1040.6	1042.1	1042.1
37.5°	939.9	954.5	975.0	991.0	993.9	999.8	1014.4	1027.5	1029.0	1030.4
40°	913.7	931.2	951.6	970.6	976.4	982.3	998.3	1011.4	1014.4	1014.4
42.5°	887.4	909.3	929.7	951.6	958.9	964.7	982.3	995.4	998.3	998.3
45°	859.7	887.4	907.8	931.2	939.9	945.8	961.8	976.4	980.8	980.8
47.5°	834.8	864.0	884.5	907.8	916.6	925.3	939.9	954.5	958.9	960.4
50°	807.1	839.2	859.7	881.5	893.2	902.0	916.6	932.6	937.0	935.5
52.5°	779.4	810.0	831.9	855.3	867.0	875.7	888.8	906.4	910.7	910.7
55°	750.2	780.8	804.2	826.1	837.8	849.4	862.6	877.2	883.0	881.5
57.5°	721.0	748.7	773.5	796.9	807.1	818.8	831.9	846.5	850.9	853.8
60°	690.3	715.2	742.9	764.8	775.0	786.7	799.8	812.9	820.2	818.8
62.5°	656.8	684.5	710.8	731.2	741.4	753.1	766.2	777.9	783.8	786.7
65°	623.2	649.5	674.3	696.2	704.9	716.6	731.2	740.0	747.3	748.7
67.5°	588.2	614.5	639.3	662.6	671.4	681.6	694.7	703.5	710.8	712.2
70°	553.2	580.9	605.7	627.6	636.3	645.1	658.2	667.0	674.3	674.3
72.5°	519.6	547.3	570.7	592.6	601.3	608.6	621.8	630.5	636.3	637.8
75°	486.0	512.3	535.6	557.5	564.8	573.6	585.3	594.0	599.9	601.3
77.5°	452.4	480.2	502.1	522.5	529.8	537.1	550.2	557.5	563.4	563.4
80°	420.3	446.6	468.5	487.5	493.3	502.1	513.7	521.0	525.4	528.3
82.5°	389.7	414.5	434.9	452.4	461.2	467.0	478.7	486.0	490.4	493.3
85°	356.1	382.4	402.8	420.3	426.2	434.9	445.2	452.4	456.8	458.3
87.5°	325.5	348.8	369.3	389.7	397.0	402.8	413.0	420.3	424.7	427.6
90°	299.2	321.1	340.1	356.1	363.4	370.7	382.4	389.7	394.1	395.5
92.5°	280.2	302.1	319.6	335.7	343.0	348.8	359.0	366.3	370.7	372.2
95°	262.7	283.1	300.7	316.7	322.6	328.4	338.6	344.4	347.4	350.3
97.5°	243.7	265.6	281.7	296.3	303.6	308.0	318.2	324.0	328.4	329.8
100°	226.2	246.7	262.7	278.8	284.6	289.0	299.2	305.0	308.0	309.4
102.5°	208.7	229.1	245.2	259.8	265.6	270.0	278.8	284.6	289.0	290.4
105°	191.2	210.2	226.2	240.8	246.7	251.0	259.8	265.6	270.0	271.5
107.5°	175.1	192.7	208.7	221.8	227.7	232.1	240.8	246.7	251.0	252.5
110°	159.1	175.1	191.2	204.3	210.2	214.5	223.3	227.7	232.1	233.5





TEST NUMBER: P257088

CATALOG NUMBER: HGL-S-UF-30L930-UNV-8

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	141.6	159.1	173.7	186.8	191.2	197.0	204.3	210.2	213.1	214.5
115°	127.0	143.0	156.2	169.3	173.7	178.1	186.8	191.2	195.6	195.6
117.5°	110.9	125.5	140.1	151.8	156.2	160.5	169.3	173.7	176.6	178.1
120°	96.3	109.5	122.6	134.3	140.1	143.0	151.8	156.2	159.1	160.5
122.5°	81.7	94.9	108.0	118.2	122.6	127.0	134.3	138.7	141.6	143.0
125°	67.1	80.3	91.9	102.2	106.5	110.9	116.8	121.1	124.1	125.5
127.5°	54.0	65.7	77.4	86.1	90.5	94.9	100.7	105.1	108.0	109.5
130°	40.9	51.1	62.8	71.5	75.9	78.8	84.7	89.0	91.9	93.4
132.5°	27.7	37.9	48.2	56.9	61.3	64.2	70.1	73.0	75.9	77.4
135°	17.5	26.3	35.0	42.3	46.7	49.6	55.5	58.4	61.3	61.3
137.5°	8.8	16.1	23.4	29.2	32.1	36.5	40.9	43.8	45.2	46.7
140°	2.9	7.3	13.1	17.5	20.4	23.4	27.7	30.6	32.1	33.6
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)