

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: P257050

Luminaire Tested: **HGL-S-UF-30L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257050
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-30L835-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: 3184.7 lumens
Efficiency: N/A
Efficacy: 136.7 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

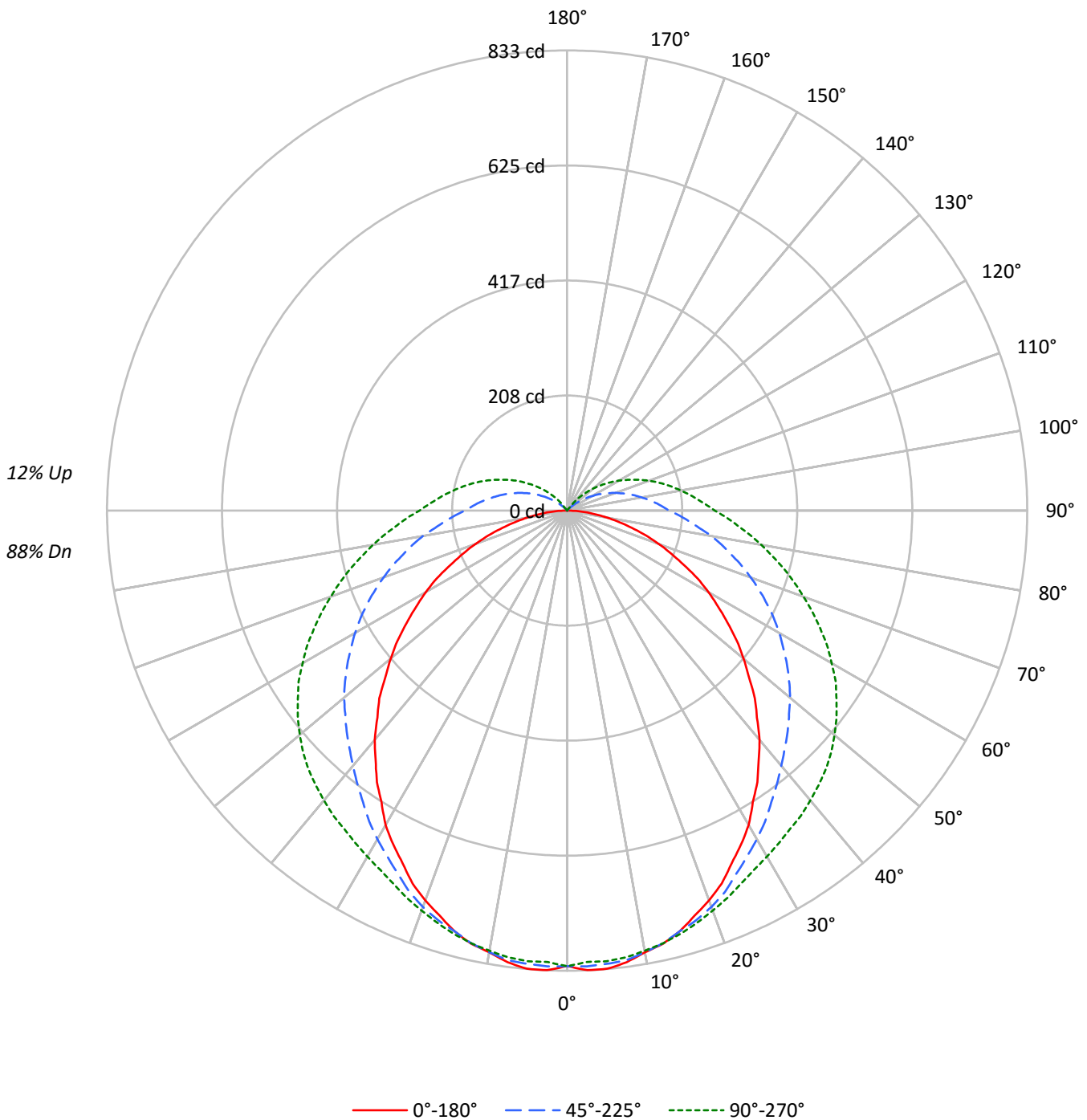
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9684	9684	9684
5°	9792	9429	9282
10°	9637	9133	8930
15°	9517	8783	8596
20°	9294	8492	8261
25°	9018	8111	7963
30°	8779	7785	7767
35°	8448	7462	7650
40°	8129	7192	7599
45°	7782	6998	7559
50°	7385	6853	7484
55°	7001	6696	7387
60°	6643	6555	7264
65°	6118	6414	7112
70°	5652	6280	6949
75°	5012	6149	6831
80°	4295	6124	6742
85°	3374	6115	6728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	2.5
10°-20°	222.1	7.0
20°-30°	333.3	10.5
30°-40°	404.6	12.7
40°-50°	437.1	13.7
50°-60°	428.0	13.4
60°-70°	379.7	11.9
70°-80°	304.1	9.5
80°-90°	220.4	6.9
90°-100°	155.3	4.9
100°-110°	108.4	3.4
110°-120°	67.1	2.1
120°-130°	34.1	1.1
130°-140°	11.8	0.4
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	633.5	19.9
0°-40°	1038.1	32.6
0°-60°	1903.2	59.8
0°-90°	2807.5	88.2
90°-120°	330.8	10.4
90°-150°	377.3	11.8
90°-180°	377.0	11.8
0°-180°	3184.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	833	825	824	820	819	79
15°	788	782	788	795	793	222
25°	704	706	725	737	745	325
35°	600	604	644	683	704	375
45°	481	494	565	634	662	369
55°	355	384	486	566	595	318
65°	232	288	399	476	506	232
75°	121	198	307	381	406	130
85°	32	121	222	288	309	35
90°	1	89	184	245	267	2
95°	0	70	161	218	236	0
105°	0	37	115	166	183	0
115°	0	12	73	117	132	0
125°	0	0	36	72	85	0
135°	0	0	6	32	41	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°	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7
2.5°	832.6	831.6	828.7	825.7	824.7	824.7	823.7	822.7	822.7	821.8	825.7
5°	832.6	831.6	828.7	824.7	823.7	824.7	823.7	821.8	821.8	820.8	823.7
7.5°	824.7	822.7	820.8	817.8	816.8	816.8	815.8	815.8	815.8	815.8	820.8
10°	811.9	810.9	809.0	806.0	806.0	805.0	805.0	806.0	806.0	807.0	811.9
12.5°	803.0	801.1	798.1	795.2	794.2	794.2	793.2	792.2	793.2	794.2	802.1
15°	788.3	787.3	785.3	782.3	782.3	782.3	782.3	781.4	781.4	782.3	788.3
17.5°	768.6	766.6	765.6	763.6	764.6	765.6	766.6	765.6	767.6	770.5	777.4
20°	750.8	748.8	746.9	743.9	743.9	744.9	745.9	745.9	750.8	754.8	763.6
22.5°	731.1	730.1	728.2	727.2	727.2	728.2	728.2	726.2	729.1	735.1	746.9
25°	704.5	703.5	702.5	702.5	704.5	706.5	707.5	708.4	711.4	715.3	725.2
27.5°	681.8	680.9	678.9	676.9	678.9	680.9	681.8	683.8	689.7	697.6	705.5
30°	657.2	656.2	655.2	655.2	657.2	658.2	659.2	658.2	666.1	677.9	686.8
32.5°	625.7	624.7	625.7	625.7	630.6	633.6	635.5	636.5	643.4	654.3	667.1
35°	600.1	600.1	599.1	601.0	602.0	604.0	606.0	610.9	620.8	631.6	644.4
37.5°	569.5	569.5	569.5	574.4	578.4	579.4	580.4	586.3	599.1	609.9	623.7
40°	541.9	541.9	541.9	543.9	546.9	549.8	553.8	560.6	573.5	589.2	603.0
42.5°	508.4	509.4	511.4	516.3	520.3	522.2	525.2	536.0	549.8	568.5	583.3
45°	480.8	479.9	481.8	485.8	489.7	493.6	498.6	510.4	527.1	547.8	564.6
47.5°	446.4	447.3	449.3	456.2	461.1	466.1	472.0	485.8	505.5	526.2	544.9
50°	416.8	417.8	422.7	426.6	431.6	437.5	444.4	462.1	483.8	504.5	527.1
52.5°	387.2	388.2	392.2	395.1	403.0	409.9	418.8	438.5	461.1	483.8	506.5
55°	354.7	356.7	359.6	366.5	376.4	384.3	394.1	415.8	438.5	463.1	485.8
57.5°	324.2	325.2	330.1	337.0	348.8	358.7	370.5	393.1	417.8	441.4	464.1
60°	295.6	297.6	300.5	309.4	325.2	335.0	346.8	370.5	396.1	419.7	443.4
62.5°	266.0	268.0	271.9	281.8	300.5	311.4	324.2	348.8	374.4	398.1	421.7
65°	232.5	234.5	240.4	253.2	275.9	287.7	300.5	326.1	350.8	375.4	399.1
67.5°	204.0	204.9	212.8	226.6	250.3	265.1	278.8	303.5	328.1	352.7	376.4
70°	176.4	178.3	184.3	203.0	228.6	240.4	255.2	281.8	306.4	331.1	353.7
72.5°	148.8	150.8	159.6	180.3	206.9	219.7	231.6	260.1	284.8	308.4	331.1
75°	121.2	124.2	136.0	159.6	185.2	198.1	210.9	236.5	263.1	285.7	307.4
77.5°	96.6	99.5	114.3	138.9	164.5	177.4	190.2	214.8	239.4	264.1	286.7
80°	72.9	76.9	94.6	119.2	144.8	157.7	169.5	195.1	218.7	241.4	265.1
82.5°	52.2	57.1	77.8	101.5	127.1	138.9	150.8	175.4	199.0	220.7	241.4
85°	32.5	41.4	62.1	84.7	109.4	121.2	133.0	157.7	180.3	202.0	221.7
87.5°	15.8	27.6	47.3	69.0	92.6	104.4	116.3	139.9	161.6	183.3	203.0
90°	1.0	15.8	33.5	54.2	77.8	88.7	100.5	123.2	144.8	165.5	184.3
92.5°	0.0	9.9	26.6	46.3	68.0	79.8	90.6	113.3	134.0	154.7	172.4
95°	0.0	4.9	20.7	39.4	60.1	70.0	80.8	102.5	123.2	142.9	160.6
97.5°	0.0	1.0	14.8	31.5	51.2	62.1	71.9	92.6	113.3	132.0	148.8
100°	0.0	0.0	9.9	25.6	43.4	53.2	63.1	82.8	102.5	120.2	137.0
102.5°	0.0	0.0	4.9	19.7	36.5	45.3	54.2	73.9	92.6	110.4	126.1
105°	0.0	0.0	1.0	13.8	29.6	37.4	46.3	64.0	82.8	99.5	115.3
107.5°	0.0	0.0	0.0	7.9	22.7	30.5	38.4	55.2	72.9	88.7	103.5
110°	0.0	0.0	0.0	3.9	16.8	23.6	31.5	47.3	63.1	78.8	93.6



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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	1.0	10.8	17.7	24.6	39.4	54.2	69.0	82.8
115°	0.0	0.0	0.0	0.0	5.9	11.8	17.7	31.5	45.3	60.1	72.9
117.5°	0.0	0.0	0.0	0.0	2.0	6.9	11.8	24.6	37.4	50.3	63.1
120°	0.0	0.0	0.0	0.0	0.0	3.0	6.9	17.7	29.6	41.4	53.2
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	10.8	21.7	33.5	44.3
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	14.8	25.6	35.5
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.9	17.7	26.6
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	10.8	18.7
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.9	11.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.9
137.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
140°	1.0	1.0	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°	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7
2.5°	828.7	824.7	824.7	823.7	822.7	821.8	819.8	818.8	816.8	817.8
5°	826.7	822.7	822.7	820.8	819.8	819.8	818.8	818.8	817.8	818.8
7.5°	823.7	818.8	818.8	816.8	815.8	814.9	814.9	814.9	814.9	815.8
10°	815.8	812.9	812.9	811.9	810.9	809.0	808.0	809.0	808.0	809.0
12.5°	805.0	802.1	804.0	804.0	804.0	802.1	801.1	802.1	801.1	802.1
15°	791.2	790.2	793.2	794.2	795.2	794.2	793.2	793.2	793.2	793.2
17.5°	777.4	776.4	780.4	782.3	782.3	782.3	782.3	781.4	781.4	782.3
20°	765.6	761.7	763.6	767.6	768.6	768.6	769.5	770.5	770.5	770.5
22.5°	748.8	746.9	747.9	750.8	752.8	753.8	756.7	756.7	757.7	758.7
25°	729.1	732.1	733.1	736.0	737.0	739.0	742.9	744.9	744.9	744.9
27.5°	708.4	714.4	718.3	720.3	722.2	724.2	729.1	733.1	733.1	733.1
30°	688.7	694.7	702.5	706.5	708.4	710.4	717.3	722.2	723.2	723.2
32.5°	668.1	675.9	687.8	693.7	694.7	697.6	706.5	712.4	713.4	713.4
35°	650.3	660.2	673.0	680.9	682.8	685.8	695.6	702.5	703.5	703.5
37.5°	634.5	644.4	658.2	669.0	671.0	674.9	684.8	693.7	694.7	695.6
40°	616.8	628.6	642.4	655.2	659.2	663.1	674.0	682.8	684.8	684.8
42.5°	599.1	613.9	627.7	642.4	647.4	651.3	663.1	672.0	674.0	674.0
45°	580.4	599.1	612.9	628.6	634.5	638.5	649.3	659.2	662.1	662.1
47.5°	563.6	583.3	597.1	612.9	618.8	624.7	634.5	644.4	647.4	648.3
50°	544.9	566.6	580.4	595.1	603.0	608.9	618.8	629.6	632.6	631.6
52.5°	526.2	546.9	561.6	577.4	585.3	591.2	600.1	611.9	614.8	614.8
55°	506.5	527.1	542.9	557.7	565.6	573.5	582.3	592.2	596.1	595.1
57.5°	486.8	505.5	522.2	538.0	544.9	552.8	561.6	571.5	574.4	576.4
60°	466.1	482.8	501.5	516.3	523.2	531.1	540.0	548.8	553.8	552.8
62.5°	443.4	462.1	479.9	493.6	500.5	508.4	517.3	525.2	529.1	531.1
65°	420.7	438.5	455.2	470.0	475.9	483.8	493.6	499.6	504.5	505.5
67.5°	397.1	414.8	431.6	447.3	453.2	460.1	469.0	474.9	479.9	480.8
70°	373.4	392.2	408.9	423.7	429.6	435.5	444.4	450.3	455.2	455.2
72.5°	350.8	369.5	385.3	400.0	406.0	410.9	419.7	425.7	429.6	430.6
75°	328.1	345.8	361.6	376.4	381.3	387.2	395.1	401.0	405.0	406.0
77.5°	305.5	324.2	339.0	352.7	357.7	362.6	371.5	376.4	380.3	380.3
80°	283.8	301.5	316.3	329.1	333.0	339.0	346.8	351.8	354.7	356.7
82.5°	263.1	279.8	293.6	305.5	311.4	315.3	323.2	328.1	331.1	333.0
85°	240.4	258.2	271.9	283.8	287.7	293.6	300.5	305.5	308.4	309.4
87.5°	219.7	235.5	249.3	263.1	268.0	271.9	278.8	283.8	286.7	288.7
90°	202.0	216.8	229.6	240.4	245.3	250.3	258.2	263.1	266.0	267.0
92.5°	189.2	204.0	215.8	226.6	231.6	235.5	242.4	247.3	250.3	251.3
95°	177.4	191.2	203.0	213.8	217.8	221.7	228.6	232.5	234.5	236.5
97.5°	164.5	179.3	190.2	200.0	204.9	207.9	214.8	218.7	221.7	222.7
100°	152.7	166.5	177.4	188.2	192.1	195.1	202.0	205.9	207.9	208.9
102.5°	140.9	154.7	165.5	175.4	179.3	182.3	188.2	192.1	195.1	196.1
105°	129.1	141.9	152.7	162.6	166.5	169.5	175.4	179.3	182.3	183.3
107.5°	118.2	130.1	140.9	149.8	153.7	156.7	162.6	166.5	169.5	170.5
110°	107.4	118.2	129.1	137.9	141.9	144.8	150.8	153.7	156.7	157.7



TEST NUMBER: P257050

CATALOG NUMBER: HGL-S-UF-30L835-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	95.6	107.4	117.3	126.1	129.1	133.0	137.9	141.9	143.9	144.8
115°	85.7	96.6	105.4	114.3	117.3	120.2	126.1	129.1	132.0	132.0
117.5°	74.9	84.7	94.6	102.5	105.4	108.4	114.3	117.3	119.2	120.2
120°	65.0	73.9	82.8	90.6	94.6	96.6	102.5	105.4	107.4	108.4
122.5°	55.2	64.0	72.9	79.8	82.8	85.7	90.6	93.6	95.6	96.6
125°	45.3	54.2	62.1	69.0	71.9	74.9	78.8	81.8	83.8	84.7
127.5°	36.5	44.3	52.2	58.1	61.1	64.0	68.0	70.9	72.9	73.9
130°	27.6	34.5	42.4	48.3	51.2	53.2	57.1	60.1	62.1	63.1
132.5°	18.7	25.6	32.5	38.4	41.4	43.4	47.3	49.3	51.2	52.2
135°	11.8	17.7	23.6	28.6	31.5	33.5	37.4	39.4	41.4	41.4
137.5°	5.9	10.8	15.8	19.7	21.7	24.6	27.6	29.6	30.5	31.5
140°	2.0	4.9	8.9	11.8	13.8	15.8	18.7	20.7	21.7	22.7
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)