

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: P257096

Luminaire Tested: **HGL-S-UF-60L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257096
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-60L940-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: 9318.4 lumens
Efficiency: N/A
Efficacy: 98.6 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

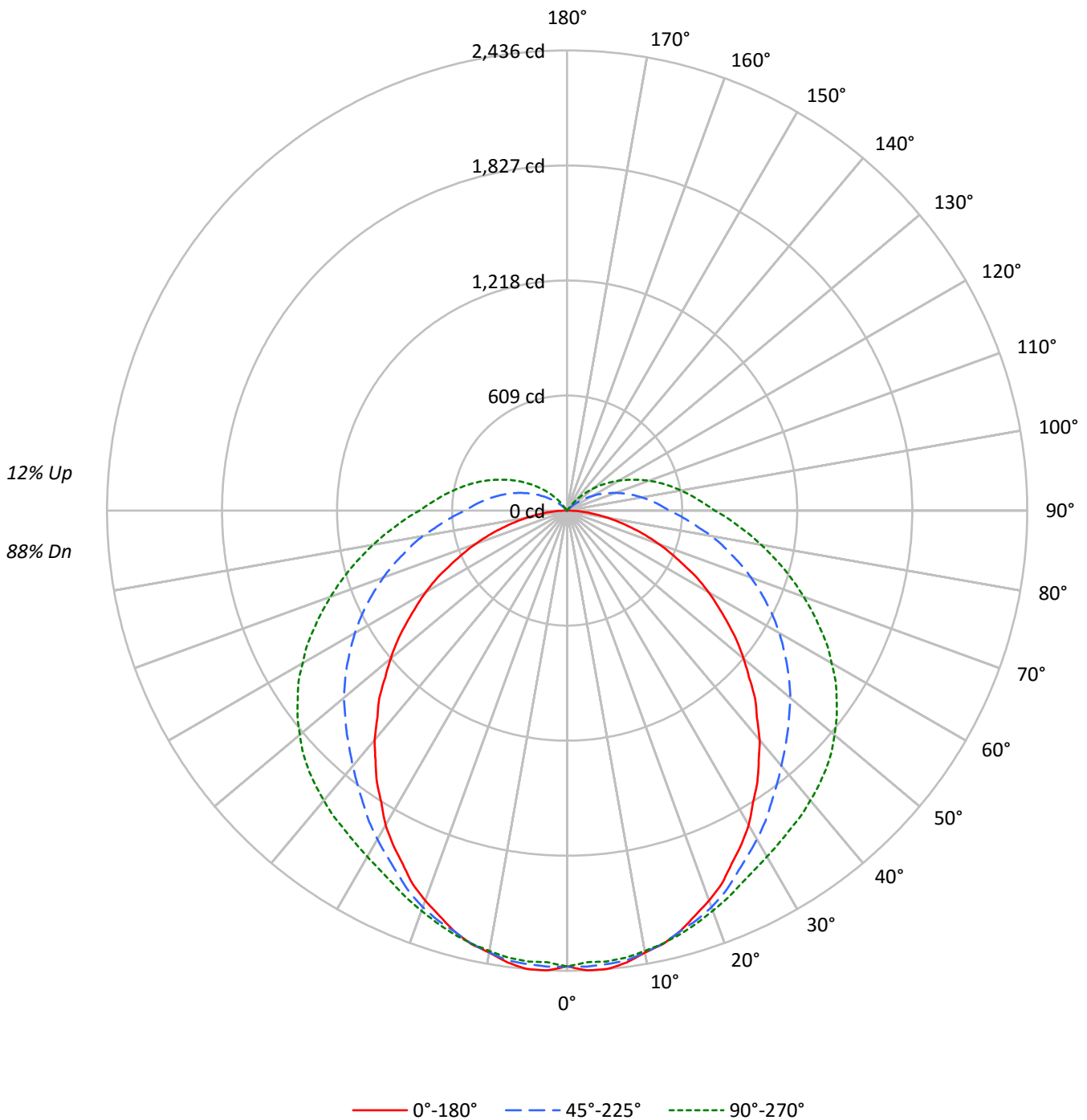
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14168	14168	14168
5°	14342	13806	13580
10°	14130	13383	13064
15°	13970	12878	12575
20°	13662	12461	12087
25°	13274	11910	11650
30°	12940	11440	11364
35°	12471	10974	11192
40°	12022	10586	11117
45°	11532	10309	11059
50°	10969	10106	10949
55°	10430	9882	10808
60°	9932	9687	10626
65°	9196	9491	10405
70°	8554	9310	10168
75°	7671	9134	9993
80°	6716	9120	9863
85°	5576	9144	9843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	2.5
10°-20°	649.9	7.0
20°-30°	975.2	10.5
30°-40°	1184.0	12.7
40°-50°	1278.8	13.7
50°-60°	1252.4	13.4
60°-70°	1110.9	11.9
70°-80°	889.8	9.5
80°-90°	644.9	6.9
90°-100°	454.5	4.9
100°-110°	317.1	3.4
110°-120°	196.3	2.1
120°-130°	99.8	1.1
130°-140°	34.6	0.4
140°-150°	1.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1853.6	19.9
0°-40°	3037.6	32.6
0°-60°	5568.8	59.8
0°-90°	8214.5	88.2
90°-120°	967.9	10.4
90°-150°	1103.9	11.8
90°-180°	1104.0	11.8
0°-180°	9318.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2413	2413	2413	2413	2413	
5°	2436	2413	2410	2399	2396	230
15°	2306	2289	2306	2327	2321	649
25°	2061	2067	2122	2156	2180	952
35°	1756	1767	1886	1998	2058	1096
45°	1407	1444	1652	1857	1937	1081
55°	1038	1124	1421	1655	1741	930
65°	680	842	1168	1392	1479	679
75°	355	580	900	1116	1188	379
85°	95	355	649	842	905	103
90°	3	260	539	718	781	7
95°	0	205	470	637	692	0
105°	0	110	337	487	536	0
115°	0	35	213	343	386	0
125°	0	0	104	210	248	0
135°	0	0	17	92	121	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°	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1
2.5°	2436.2	2433.3	2424.6	2416.0	2413.1	2413.1	2410.2	2407.3	2407.3	2404.4	2416.0
5°	2436.2	2433.3	2424.6	2413.1	2410.2	2413.1	2410.2	2404.4	2404.4	2401.6	2410.2
7.5°	2413.1	2407.3	2401.6	2392.9	2390.0	2390.0	2387.1	2387.1	2387.1	2387.1	2401.6
10°	2375.6	2372.7	2367.0	2358.3	2358.3	2355.4	2355.4	2358.3	2358.3	2361.2	2375.6
12.5°	2349.7	2343.9	2335.3	2326.6	2323.7	2323.7	2320.8	2318.0	2320.8	2323.7	2346.8
15°	2306.4	2303.5	2297.8	2289.1	2289.1	2289.1	2289.1	2286.2	2286.2	2289.1	2306.4
17.5°	2248.8	2243.0	2240.1	2234.3	2237.2	2240.1	2243.0	2240.1	2245.9	2254.5	2274.7
20°	2196.9	2191.1	2185.3	2176.7	2176.7	2179.6	2182.5	2182.5	2196.9	2208.4	2234.3
22.5°	2139.2	2136.3	2130.6	2127.7	2127.7	2130.6	2130.6	2124.8	2133.4	2150.7	2185.3
25°	2061.4	2058.5	2055.6	2055.6	2061.4	2067.1	2070.0	2072.9	2081.5	2093.1	2121.9
27.5°	1995.1	1992.2	1986.4	1980.6	1986.4	1992.2	1995.1	2000.8	2018.1	2041.2	2064.2
30°	1923.0	1920.1	1917.2	1917.2	1923.0	1925.9	1928.7	1925.9	1948.9	1983.5	2009.5
32.5°	1830.7	1827.8	1830.7	1830.7	1845.1	1853.8	1859.6	1862.4	1882.6	1914.3	1951.8
35°	1755.8	1755.8	1752.9	1758.6	1761.5	1767.3	1773.1	1787.5	1816.3	1848.0	1885.5
37.5°	1666.4	1666.4	1666.4	1680.8	1692.3	1695.2	1698.1	1715.4	1752.9	1784.6	1825.0
40°	1585.7	1585.7	1585.7	1591.4	1600.1	1608.7	1620.3	1640.4	1677.9	1724.0	1764.4
42.5°	1487.6	1490.5	1496.3	1510.7	1522.2	1528.0	1536.7	1568.4	1608.7	1663.5	1706.8
45°	1406.9	1404.0	1409.8	1421.3	1432.9	1444.4	1458.8	1493.4	1542.4	1603.0	1652.0
47.5°	1306.0	1308.9	1314.7	1334.8	1349.3	1363.7	1381.0	1421.3	1479.0	1539.5	1594.3
50°	1219.5	1222.4	1236.8	1248.4	1262.8	1280.1	1300.2	1352.1	1415.6	1476.1	1542.4
52.5°	1133.0	1135.9	1147.4	1156.1	1179.2	1199.3	1225.3	1282.9	1349.3	1415.6	1481.9
55°	1037.9	1043.7	1052.3	1072.5	1101.3	1124.4	1153.2	1216.6	1282.9	1355.0	1421.3
57.5°	948.5	951.4	965.8	986.0	1020.6	1049.4	1084.0	1150.3	1222.4	1291.6	1357.9
60°	864.9	870.7	879.3	905.3	951.4	980.2	1014.8	1084.0	1159.0	1228.2	1297.4
62.5°	778.4	784.2	795.7	824.5	879.3	911.0	948.5	1020.6	1095.5	1164.7	1233.9
65°	680.4	686.2	703.5	740.9	807.2	841.8	879.3	954.3	1026.4	1098.4	1167.6
67.5°	596.8	599.7	622.7	663.1	732.3	775.5	815.9	888.0	960.0	1032.1	1101.3
70°	516.1	521.8	539.1	593.9	668.9	703.5	746.7	824.5	896.6	968.7	1035.0
72.5°	435.3	441.1	467.1	527.6	605.4	642.9	677.5	761.1	833.2	902.4	968.7
75°	354.6	363.3	397.9	467.1	542.0	579.5	617.0	691.9	769.8	836.1	899.5
77.5°	282.5	291.2	334.4	406.5	481.5	518.9	556.4	628.5	700.6	772.7	839.0
80°	213.3	224.9	276.8	348.8	423.8	461.3	495.9	570.8	640.0	706.3	775.5
82.5°	152.8	167.2	227.8	297.0	371.9	406.5	441.1	513.2	582.4	645.8	706.3
85°	95.1	121.1	181.6	247.9	320.0	354.6	389.2	461.3	527.6	591.0	648.7
87.5°	46.1	80.7	138.4	201.8	271.0	305.6	340.2	409.4	472.8	536.2	593.9
90°	2.9	46.1	98.0	158.6	227.8	259.5	294.1	360.4	423.8	484.3	539.1
92.5°	0.0	28.8	77.8	135.5	198.9	233.5	265.2	331.5	392.1	452.6	504.5
95°	0.0	14.4	60.5	115.3	175.9	204.7	236.4	299.8	360.4	418.0	469.9
97.5°	0.0	2.9	43.2	92.3	149.9	181.6	210.5	271.0	331.5	386.3	435.3
100°	0.0	0.0	28.8	75.0	126.9	155.7	184.5	242.2	299.8	351.7	400.7
102.5°	0.0	0.0	14.4	57.7	106.7	132.6	158.6	216.2	271.0	322.9	369.0
105°	0.0	0.0	2.9	40.4	86.5	109.6	135.5	187.4	242.2	291.2	337.3
107.5°	0.0	0.0	0.0	23.1	66.3	89.4	112.4	161.4	213.3	259.5	302.7
110°	0.0	0.0	0.0	11.5	49.0	69.2	92.3	138.4	184.5	230.6	273.9



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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	2.9	31.7	51.9	72.1	115.3	158.6	201.8	242.2
115°	0.0	0.0	0.0	0.0	17.3	34.6	51.9	92.3	132.6	175.9	213.3
117.5°	0.0	0.0	0.0	0.0	5.8	20.2	34.6	72.1	109.6	147.0	184.5
120°	0.0	0.0	0.0	0.0	0.0	8.6	20.2	51.9	86.5	121.1	155.7
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	31.7	63.4	98.0	129.7
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	43.2	75.0	103.8
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	25.9	51.9	77.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	31.7	54.8
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	17.3	34.6
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	17.3
137.5°	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
140°	2.9	2.9	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°	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1
2.5°	2424.6	2413.1	2413.1	2410.2	2407.3	2404.4	2398.7	2395.8	2390.0	2392.9
5°	2418.9	2407.3	2407.3	2401.6	2398.7	2398.7	2395.8	2395.8	2392.9	2395.8
7.5°	2410.2	2395.8	2395.8	2390.0	2387.1	2384.3	2384.3	2384.3	2384.3	2387.1
10°	2387.1	2378.5	2378.5	2375.6	2372.7	2367.0	2364.1	2367.0	2364.1	2367.0
12.5°	2355.4	2346.8	2352.5	2352.5	2352.5	2346.8	2343.9	2346.8	2343.9	2346.8
15°	2315.1	2312.2	2320.8	2323.7	2326.6	2323.7	2320.8	2320.8	2320.8	2320.8
17.5°	2274.7	2271.8	2283.4	2289.1	2289.1	2289.1	2289.1	2286.2	2286.2	2289.1
20°	2240.1	2228.6	2234.3	2245.9	2248.8	2248.8	2251.6	2254.5	2254.5	2254.5
22.5°	2191.1	2185.3	2188.2	2196.9	2202.6	2205.5	2214.2	2214.2	2217.0	2219.9
25°	2133.4	2142.1	2145.0	2153.6	2156.5	2162.3	2173.8	2179.6	2179.6	2179.6
27.5°	2072.9	2090.2	2101.7	2107.5	2113.3	2119.0	2133.4	2145.0	2145.0	2145.0
30°	2015.2	2032.5	2055.6	2067.1	2072.9	2078.7	2098.8	2113.3	2116.1	2116.1
32.5°	1954.7	1977.8	2012.4	2029.7	2032.5	2041.2	2067.1	2084.4	2087.3	2087.3
35°	1902.8	1931.6	1969.1	1992.2	1997.9	2006.6	2035.4	2055.6	2058.5	2058.5
37.5°	1856.7	1885.5	1925.9	1957.6	1963.3	1974.9	2003.7	2029.7	2032.5	2035.4
40°	1804.8	1839.4	1879.7	1917.2	1928.7	1940.3	1972.0	1997.9	2003.7	2003.7
42.5°	1752.9	1796.1	1836.5	1879.7	1894.1	1905.7	1940.3	1966.2	1972.0	1972.0
45°	1698.1	1752.9	1793.2	1839.4	1856.7	1868.2	1899.9	1928.7	1937.4	1937.4
47.5°	1649.1	1706.8	1747.1	1793.2	1810.5	1827.8	1856.7	1885.5	1894.1	1897.0
50°	1594.3	1657.7	1698.1	1741.3	1764.4	1781.7	1810.5	1842.3	1850.9	1848.0
52.5°	1539.5	1600.1	1643.3	1689.5	1712.5	1729.8	1755.8	1790.4	1799.0	1799.0
55°	1481.9	1542.4	1588.5	1631.8	1654.9	1677.9	1703.9	1732.7	1744.2	1741.3
57.5°	1424.2	1479.0	1528.0	1574.1	1594.3	1617.4	1643.3	1672.2	1680.8	1686.6
60°	1363.7	1412.7	1467.5	1510.7	1530.9	1554.0	1579.9	1605.8	1620.3	1617.4
62.5°	1297.4	1352.1	1404.0	1444.4	1464.6	1487.6	1513.6	1536.7	1548.2	1554.0
65°	1231.1	1282.9	1332.0	1375.2	1392.5	1415.6	1444.4	1461.7	1476.1	1479.0
67.5°	1161.9	1213.8	1262.8	1308.9	1326.2	1346.4	1372.3	1389.6	1404.0	1406.9
70°	1092.7	1147.4	1196.5	1239.7	1257.0	1274.3	1300.2	1317.5	1332.0	1332.0
72.5°	1026.4	1081.1	1127.3	1170.5	1187.8	1202.2	1228.2	1245.5	1257.0	1259.9
75°	960.0	1011.9	1058.1	1101.3	1115.7	1133.0	1156.1	1173.4	1184.9	1187.8
77.5°	893.7	948.5	991.8	1032.1	1046.5	1061.0	1086.9	1101.3	1112.8	1112.8
80°	830.3	882.2	925.5	962.9	974.5	991.8	1014.8	1029.2	1037.9	1043.7
82.5°	769.8	818.8	859.1	893.7	911.0	922.6	945.6	960.0	968.7	974.5
85°	703.5	755.4	795.7	830.3	841.8	859.1	879.3	893.7	902.4	905.3
87.5°	642.9	689.0	729.4	769.8	784.2	795.7	815.9	830.3	839.0	844.7
90°	591.0	634.3	671.7	703.5	717.9	732.3	755.4	769.8	778.4	781.3
92.5°	553.5	596.8	631.4	663.1	677.5	689.0	709.2	723.6	732.3	735.2
95°	518.9	559.3	593.9	625.6	637.1	648.7	668.9	680.4	686.2	691.9
97.5°	481.5	524.7	556.4	585.3	599.7	608.3	628.5	640.0	648.7	651.6
100°	446.9	487.2	518.9	550.7	562.2	570.8	591.0	602.6	608.3	611.2
102.5°	412.3	452.6	484.3	513.2	524.7	533.4	550.7	562.2	570.8	573.7
105°	377.7	415.2	446.9	475.7	487.2	495.9	513.2	524.7	533.4	536.2
107.5°	346.0	380.6	412.3	438.2	449.8	458.4	475.7	487.2	495.9	498.8
110°	314.2	346.0	377.7	403.6	415.2	423.8	441.1	449.8	458.4	461.3



TEST NUMBER: P257096

CATALOG NUMBER: HGL-S-UF-60L940-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	279.7	314.2	343.1	369.0	377.7	389.2	403.6	415.2	420.9	423.8
115°	250.8	282.5	308.5	334.4	343.1	351.7	369.0	377.7	386.3	386.3
117.5°	219.1	247.9	276.8	299.8	308.5	317.1	334.4	343.1	348.8	351.7
120°	190.3	216.2	242.2	265.2	276.8	282.5	299.8	308.5	314.2	317.1
122.5°	161.4	187.4	213.3	233.5	242.2	250.8	265.2	273.9	279.7	282.5
125°	132.6	158.6	181.6	201.8	210.5	219.1	230.6	239.3	245.1	247.9
127.5°	106.7	129.7	152.8	170.1	178.7	187.4	198.9	207.6	213.3	216.2
130°	80.7	100.9	124.0	141.3	149.9	155.7	167.2	175.9	181.6	184.5
132.5°	54.8	75.0	95.1	112.4	121.1	126.9	138.4	144.2	149.9	152.8
135°	34.6	51.9	69.2	83.6	92.3	98.0	109.6	115.3	121.1	121.1
137.5°	17.3	31.7	46.1	57.7	63.4	72.1	80.7	86.5	89.4	92.3
140°	5.8	14.4	25.9	34.6	40.4	46.1	54.8	60.5	63.4	66.3
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)