

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: P257080

Luminaire Tested: **HGL-S-UF-50L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257080
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-50L835-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10067.5 lumens
Efficiency: N/A
Efficacy: 135.0 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

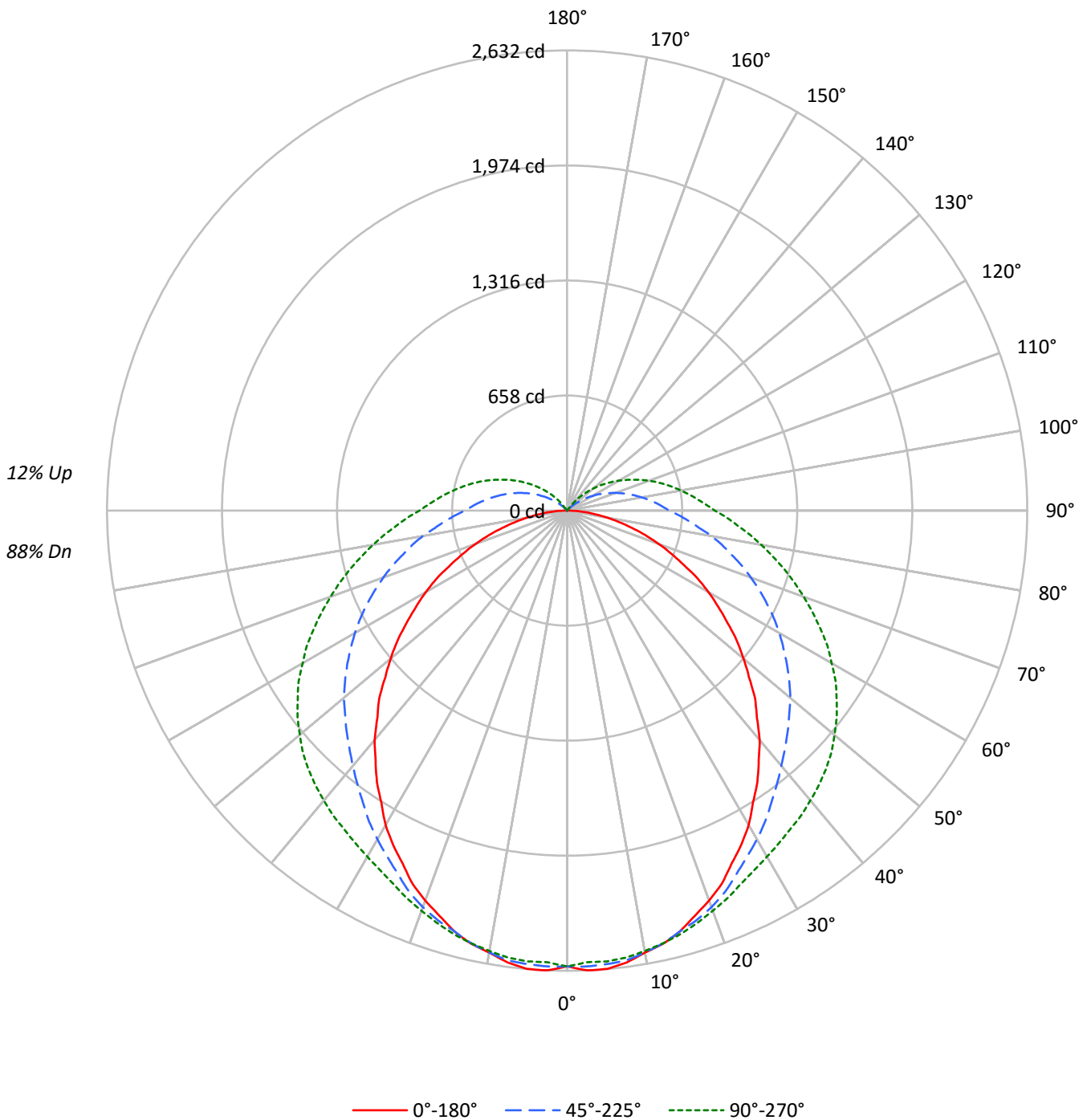
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15307	15307	15307
5°	15494	14916	14672
10°	15266	14459	14114
15°	15093	13913	13586
20°	14760	13463	13059
25°	14340	12867	12587
30°	13980	12359	12278
35°	13473	11856	12092
40°	12988	11437	12011
45°	12459	11137	11948
50°	11851	10919	11829
55°	11268	10677	11677
60°	10730	10466	11480
65°	9935	10255	11241
70°	9240	10059	10984
75°	8288	9868	10796
80°	7258	9854	10656
85°	6028	9878	10634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	2.5
10°-20°	702.2	7.0
20°-30°	1053.6	10.5
30°-40°	1279.1	12.7
40°-50°	1381.6	13.7
50°-60°	1353.1	13.4
60°-70°	1200.2	11.9
70°-80°	961.4	9.5
80°-90°	696.8	6.9
90°-100°	491.1	4.9
100°-110°	342.5	3.4
110°-120°	212.1	2.1
120°-130°	107.8	1.1
130°-140°	37.4	0.4
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2002.6	19.9
0°-40°	3281.8	32.6
0°-60°	6016.5	59.8
0°-90°	8874.9	88.2
90°-120°	1045.7	10.4
90°-150°	1192.6	11.8
90°-180°	1193.0	11.9
0°-180°	10067.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2607	2607	2607	2607	2607	
5°	2632	2607	2604	2592	2588	249
15°	2492	2473	2492	2514	2507	701
25°	2227	2233	2292	2330	2355	1028
35°	1897	1909	2037	2158	2224	1185
45°	1520	1560	1785	2006	2093	1168
55°	1121	1215	1536	1788	1881	1005
65°	735	910	1262	1504	1598	734
75°	383	626	972	1205	1283	409
85°	103	383	701	910	978	111
90°	3	280	582	776	844	8
95°	0	221	508	688	748	0
105°	0	118	364	526	579	0
115°	0	37	230	371	417	0
125°	0	0	112	227	268	0
135°	0	0	19	100	131	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: P257080

CATALOG NUMBER: HGL-S-UF-50L835-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1
2.5°	2632.0	2628.9	2619.5	2610.2	2607.1	2607.1	2604.0	2600.9	2600.9	2597.7	2610.2
5°	2632.0	2628.9	2619.5	2607.1	2604.0	2607.1	2604.0	2597.7	2597.7	2594.6	2604.0
7.5°	2607.1	2600.9	2594.6	2585.3	2582.2	2582.2	2579.0	2579.0	2579.0	2579.0	2594.6
10°	2566.6	2563.5	2557.2	2547.9	2547.9	2544.8	2544.8	2547.9	2547.9	2551.0	2566.6
12.5°	2538.6	2532.3	2523.0	2513.6	2510.5	2510.5	2507.4	2504.3	2507.4	2510.5	2535.4
15°	2491.8	2488.7	2482.5	2473.1	2473.1	2473.1	2473.1	2470.0	2470.0	2473.1	2491.8
17.5°	2429.5	2423.3	2420.2	2414.0	2417.1	2420.2	2423.3	2420.2	2426.4	2435.8	2457.6
20°	2373.5	2367.2	2361.0	2351.7	2351.7	2354.8	2357.9	2357.9	2373.5	2385.9	2414.0
22.5°	2311.2	2308.1	2301.8	2298.7	2298.7	2301.8	2301.8	2295.6	2304.9	2323.6	2361.0
25°	2227.1	2224.0	2220.8	2220.8	2227.1	2233.3	2236.4	2239.5	2248.9	2261.3	2292.5
27.5°	2155.4	2152.3	2146.1	2139.9	2146.1	2152.3	2155.4	2161.7	2180.4	2205.3	2230.2
30°	2077.6	2074.5	2071.3	2071.3	2077.6	2080.7	2083.8	2080.7	2105.6	2143.0	2171.0
32.5°	1977.9	1974.8	1977.9	1977.9	1993.5	2002.8	2009.0	2012.2	2034.0	2068.2	2108.7
35°	1896.9	1896.9	1893.8	1900.0	1903.1	1909.4	1915.6	1931.2	1962.3	1996.6	2037.1
37.5°	1800.3	1800.3	1800.3	1815.9	1828.4	1831.5	1834.6	1853.3	1893.8	1928.1	1971.7
40°	1713.1	1713.1	1713.1	1719.4	1728.7	1738.1	1750.5	1772.3	1812.8	1862.6	1906.3
42.5°	1607.2	1610.3	1616.6	1632.2	1644.6	1650.8	1660.2	1694.4	1738.1	1797.2	1844.0
45°	1520.0	1516.9	1523.1	1535.6	1548.1	1560.5	1576.1	1613.5	1666.4	1731.8	1784.8
47.5°	1411.0	1414.1	1420.3	1442.1	1457.7	1473.3	1492.0	1535.6	1597.9	1663.3	1722.5
50°	1317.6	1320.7	1336.2	1348.7	1364.3	1383.0	1404.8	1460.8	1529.4	1594.8	1666.4
52.5°	1224.1	1227.2	1239.7	1249.0	1273.9	1295.8	1323.8	1386.1	1457.7	1529.4	1601.0
55°	1121.3	1127.6	1136.9	1158.7	1189.9	1214.8	1245.9	1314.4	1386.1	1464.0	1535.6
57.5°	1024.8	1027.9	1043.5	1065.3	1102.6	1133.8	1171.2	1242.8	1320.7	1395.4	1467.1
60°	934.4	940.7	950.0	978.0	1027.9	1059.0	1096.4	1171.2	1252.1	1326.9	1401.7
62.5°	841.0	847.2	859.7	890.8	950.0	984.3	1024.8	1102.6	1183.6	1258.4	1333.1
65°	735.1	741.3	760.0	800.5	872.1	909.5	950.0	1031.0	1108.9	1186.7	1261.5
67.5°	644.8	647.9	672.8	716.4	791.2	837.9	881.5	959.4	1037.2	1115.1	1189.9
70°	557.5	563.8	582.5	641.6	722.6	760.0	806.7	890.8	968.7	1046.6	1118.2
72.5°	470.3	476.6	504.6	570.0	654.1	694.6	732.0	822.3	900.2	974.9	1046.6
75°	383.1	392.5	429.8	504.6	585.6	626.1	666.6	747.5	831.6	903.3	971.8
77.5°	305.2	314.6	361.3	439.2	520.2	560.7	601.2	679.0	756.9	834.8	906.4
80°	230.5	243.0	299.0	376.9	457.9	498.4	535.7	616.7	691.5	763.1	837.9
82.5°	165.1	180.7	246.1	320.8	401.8	439.2	476.6	554.4	629.2	697.7	763.1
85°	102.8	130.8	196.2	267.9	345.7	383.1	420.5	498.4	570.0	638.5	700.8
87.5°	49.8	87.2	149.5	218.0	292.8	330.2	367.5	442.3	510.8	579.4	641.6
90°	3.1	49.8	105.9	171.3	246.1	280.3	317.7	389.3	457.9	523.3	582.5
92.5°	0.0	31.1	84.1	146.4	214.9	252.3	286.6	358.2	423.6	489.0	545.1
95°	0.0	15.6	65.4	124.6	190.0	221.2	255.4	323.9	389.3	451.6	507.7
97.5°	0.0	3.1	46.7	99.7	162.0	196.2	227.4	292.8	358.2	417.4	470.3
100°	0.0	0.0	31.1	81.0	137.1	168.2	199.3	261.6	323.9	380.0	433.0
102.5°	0.0	0.0	15.6	62.3	115.2	143.3	171.3	233.6	292.8	348.9	398.7
105°	0.0	0.0	3.1	43.6	93.4	118.4	146.4	202.5	261.6	314.6	364.4
107.5°	0.0	0.0	0.0	24.9	71.6	96.6	121.5	174.4	230.5	280.3	327.1
110°	0.0	0.0	0.0	12.5	53.0	74.8	99.7	149.5	199.3	249.2	295.9



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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	3.1	34.3	56.1	77.9	124.6	171.3	218.0	261.6
115°	0.0	0.0	0.0	0.0	18.7	37.4	56.1	99.7	143.3	190.0	230.5
117.5°	0.0	0.0	0.0	0.0	6.2	21.8	37.4	77.9	118.4	158.9	199.3
120°	0.0	0.0	0.0	0.0	0.0	9.3	21.8	56.1	93.4	130.8	168.2
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	34.3	68.5	105.9	140.2
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	46.7	81.0	112.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	28.0	56.1	84.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	34.3	59.2
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	18.7	37.4
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	18.7
137.5°	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
140°	3.1	3.1	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°	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1
2.5°	2619.5	2607.1	2607.1	2604.0	2600.9	2597.7	2591.5	2588.4	2582.2	2585.3
5°	2613.3	2600.9	2600.9	2594.6	2591.5	2591.5	2588.4	2588.4	2585.3	2588.4
7.5°	2604.0	2588.4	2588.4	2582.2	2579.0	2575.9	2575.9	2575.9	2575.9	2579.0
10°	2579.0	2569.7	2569.7	2566.6	2563.5	2557.2	2554.1	2557.2	2554.1	2557.2
12.5°	2544.8	2535.4	2541.7	2541.7	2541.7	2535.4	2532.3	2535.4	2532.3	2535.4
15°	2501.2	2498.1	2507.4	2510.5	2513.6	2510.5	2507.4	2507.4	2507.4	2507.4
17.5°	2457.6	2454.5	2466.9	2473.1	2473.1	2473.1	2473.1	2470.0	2470.0	2473.1
20°	2420.2	2407.7	2414.0	2426.4	2429.5	2429.5	2432.7	2435.8	2435.8	2435.8
22.5°	2367.2	2361.0	2364.1	2373.5	2379.7	2382.8	2392.2	2392.2	2395.3	2398.4
25°	2304.9	2314.3	2317.4	2326.7	2329.9	2336.1	2348.6	2354.8	2354.8	2354.8
27.5°	2239.5	2258.2	2270.7	2276.9	2283.1	2289.4	2304.9	2317.4	2317.4	2317.4
30°	2177.2	2195.9	2220.8	2233.3	2239.5	2245.8	2267.6	2283.1	2286.3	2286.3
32.5°	2111.8	2136.7	2174.1	2192.8	2195.9	2205.3	2233.3	2252.0	2255.1	2255.1
35°	2055.8	2086.9	2127.4	2152.3	2158.5	2167.9	2199.0	2220.8	2224.0	2224.0
37.5°	2005.9	2037.1	2080.7	2114.9	2121.2	2133.6	2164.8	2192.8	2195.9	2199.0
40°	1949.9	1987.2	2030.8	2071.3	2083.8	2096.3	2130.5	2158.5	2164.8	2164.8
42.5°	1893.8	1940.5	1984.1	2030.8	2046.4	2058.9	2096.3	2124.3	2130.5	2130.5
45°	1834.6	1893.8	1937.4	1987.2	2005.9	2018.4	2052.6	2083.8	2093.1	2093.1
47.5°	1781.7	1844.0	1887.6	1937.4	1956.1	1974.8	2005.9	2037.1	2046.4	2049.5
50°	1722.5	1791.0	1834.6	1881.3	1906.3	1924.9	1956.1	1990.4	1999.7	1996.6
52.5°	1663.3	1728.7	1775.4	1825.3	1850.2	1868.9	1896.9	1934.3	1943.6	1943.6
55°	1601.0	1666.4	1716.2	1763.0	1787.9	1812.8	1840.8	1872.0	1884.4	1881.3
57.5°	1538.7	1597.9	1650.8	1700.7	1722.5	1747.4	1775.4	1806.6	1815.9	1822.2
60°	1473.3	1526.2	1585.4	1632.2	1654.0	1678.9	1706.9	1734.9	1750.5	1747.4
62.5°	1401.7	1460.8	1516.9	1560.5	1582.3	1607.2	1635.3	1660.2	1672.6	1678.9
65°	1330.0	1386.1	1439.0	1485.8	1504.4	1529.4	1560.5	1579.2	1594.8	1597.9
67.5°	1255.3	1311.3	1364.3	1414.1	1432.8	1454.6	1482.6	1501.3	1516.9	1520.0
70°	1180.5	1239.7	1292.6	1339.4	1358.0	1376.7	1404.8	1423.5	1439.0	1439.0
72.5°	1108.9	1168.0	1217.9	1264.6	1283.3	1298.9	1326.9	1345.6	1358.0	1361.2
75°	1037.2	1093.3	1143.1	1189.9	1205.4	1224.1	1249.0	1267.7	1280.2	1283.3
77.5°	965.6	1024.8	1071.5	1115.1	1130.7	1146.2	1174.3	1189.9	1202.3	1202.3
80°	897.1	953.1	999.8	1040.3	1052.8	1071.5	1096.4	1112.0	1121.3	1127.6
82.5°	831.6	884.6	928.2	965.6	984.3	996.7	1021.7	1037.2	1046.6	1052.8
85°	760.0	816.1	859.7	897.1	909.5	928.2	950.0	965.6	974.9	978.0
87.5°	694.6	744.4	788.0	831.6	847.2	859.7	881.5	897.1	906.4	912.6
90°	638.5	685.3	725.7	760.0	775.6	791.2	816.1	831.6	841.0	844.1
92.5°	598.0	644.8	682.1	716.4	732.0	744.4	766.2	781.8	791.2	794.3
95°	560.7	604.3	641.6	675.9	688.4	700.8	722.6	735.1	741.3	747.5
97.5°	520.2	566.9	601.2	632.3	647.9	657.2	679.0	691.5	700.8	703.9
100°	482.8	526.4	560.7	594.9	607.4	616.7	638.5	651.0	657.2	660.3
102.5°	445.4	489.0	523.3	554.4	566.9	576.2	594.9	607.4	616.7	619.8
105°	408.0	448.5	482.8	513.9	526.4	535.7	554.4	566.9	576.2	579.4
107.5°	373.8	411.2	445.4	473.4	485.9	495.3	513.9	526.4	535.7	538.9
110°	339.5	373.8	408.0	436.1	448.5	457.9	476.6	485.9	495.3	498.4



TEST NUMBER: P257080

CATALOG NUMBER: HGL-S-UF-50L835-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	302.1	339.5	370.7	398.7	408.0	420.5	436.1	448.5	454.8	457.9
115°	271.0	305.2	333.3	361.3	370.7	380.0	398.7	408.0	417.4	417.4
117.5°	236.7	267.9	299.0	323.9	333.3	342.6	361.3	370.7	376.9	380.0
120°	205.6	233.6	261.6	286.6	299.0	305.2	323.9	333.3	339.5	342.6
122.5°	174.4	202.5	230.5	252.3	261.6	271.0	286.6	295.9	302.1	305.2
125°	143.3	171.3	196.2	218.0	227.4	236.7	249.2	258.5	264.8	267.9
127.5°	115.2	140.2	165.1	183.8	193.1	202.5	214.9	224.3	230.5	233.6
130°	87.2	109.0	133.9	152.6	162.0	168.2	180.7	190.0	196.2	199.3
132.5°	59.2	81.0	102.8	121.5	130.8	137.1	149.5	155.7	162.0	165.1
135°	37.4	56.1	74.8	90.3	99.7	105.9	118.4	124.6	130.8	130.8
137.5°	18.7	34.3	49.8	62.3	68.5	77.9	87.2	93.4	96.6	99.7
140°	6.2	15.6	28.0	37.4	43.6	49.8	59.2	65.4	68.5	71.6
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)