

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: P257075

Luminaire Tested: **HGL-S-UF-50L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257075
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-50L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9704.2 lumens
Efficiency: N/A
Efficacy: 130.1 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

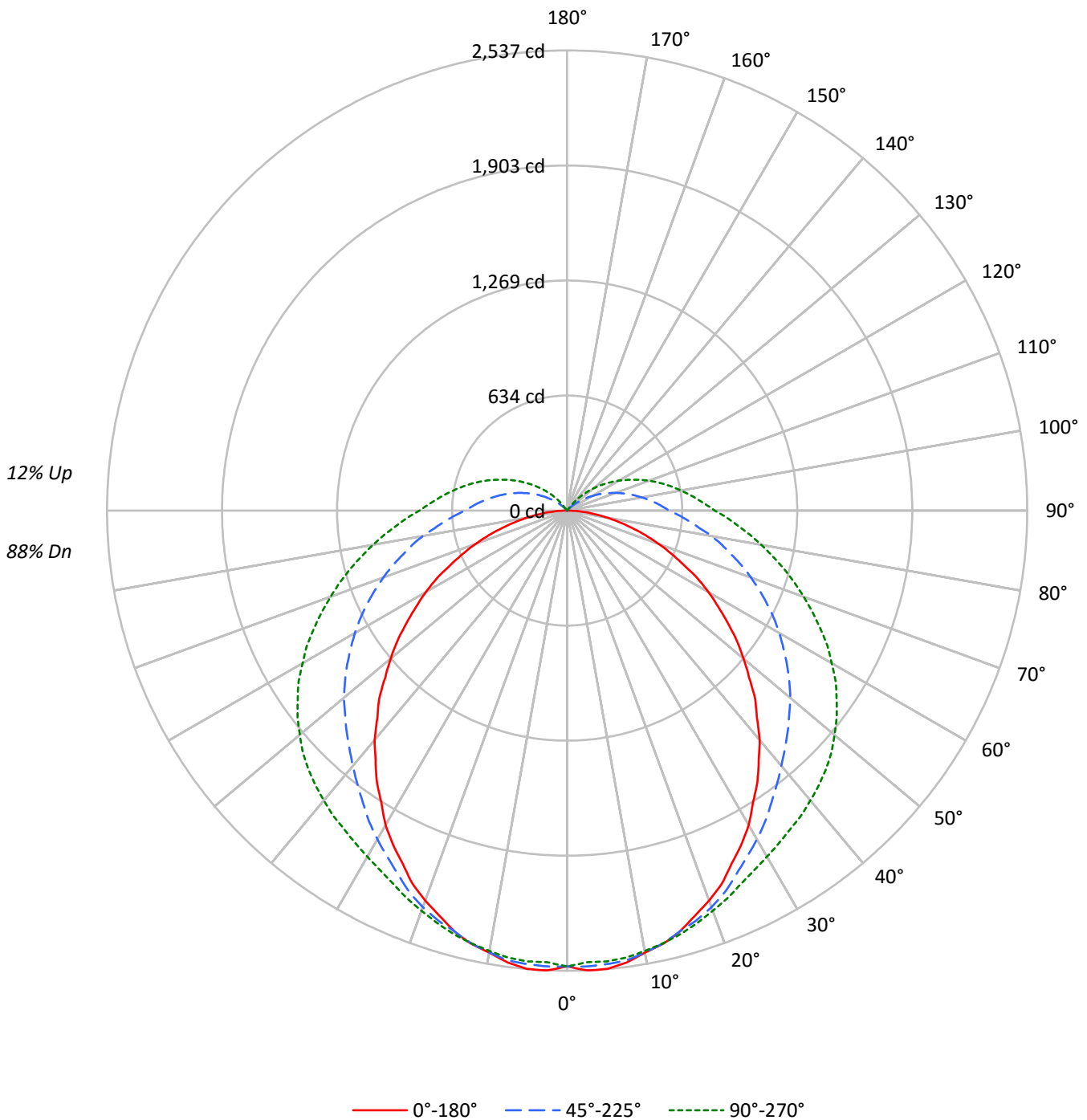
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14754	14754	14754
5°	14935	14377	14142
10°	14716	13937	13605
15°	14549	13411	13096
20°	14227	12977	12587
25°	13823	12403	12133
30°	13475	11913	11835
35°	12987	11428	11655
40°	12519	11025	11577
45°	12009	10735	11517
50°	11423	10525	11402
55°	10862	10292	11256
60°	10343	10088	11066
65°	9577	9885	10835
70°	8907	9696	10588
75°	7989	9512	10407
80°	6996	9498	10271
85°	5811	9522	10251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.0	2.5
10°-20°	676.8	7.0
20°-30°	1015.5	10.5
30°-40°	1233.0	12.7
40°-50°	1331.7	13.7
50°-60°	1304.3	13.4
60°-70°	1156.9	11.9
70°-80°	926.7	9.5
80°-90°	671.6	6.9
90°-100°	473.3	4.9
100°-110°	330.2	3.4
110°-120°	204.4	2.1
120°-130°	104.0	1.1
130°-140°	36.0	0.4
140°-150°	1.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1930.4	19.9
0°-40°	3163.4	32.6
0°-60°	5799.4	59.8
0°-90°	8554.6	88.2
90°-120°	1007.9	10.4
90°-150°	1149.6	11.8
90°-180°	1150.0	11.9
0°-180°	9704.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2513	2513	2513	2513	2513	
5°	2537	2513	2510	2498	2495	240
15°	2402	2384	2402	2423	2417	675
25°	2147	2153	2210	2246	2270	991
35°	1828	1840	1964	2081	2144	1142
45°	1465	1504	1720	1934	2018	1126
55°	1081	1171	1480	1723	1813	969
65°	709	877	1216	1450	1540	707
75°	369	604	937	1162	1237	395
85°	99	369	676	877	943	107
90°	3	270	561	748	814	7
95°	0	213	489	664	721	0
105°	0	114	351	507	558	0
115°	0	36	222	357	402	0
125°	0	0	108	219	258	0
135°	0	0	18	96	126	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°	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0
2.5°	2537.0	2534.0	2525.0	2516.0	2513.0	2513.0	2510.0	2507.0	2507.0	2504.0	2516.0
5°	2537.0	2534.0	2525.0	2513.0	2510.0	2513.0	2510.0	2504.0	2504.0	2501.0	2510.0
7.5°	2513.0	2507.0	2501.0	2492.0	2489.0	2489.0	2486.0	2486.0	2486.0	2486.0	2501.0
10°	2474.0	2471.0	2465.0	2456.0	2456.0	2453.0	2453.0	2456.0	2456.0	2459.0	2474.0
12.5°	2446.9	2440.9	2431.9	2422.9	2419.9	2419.9	2416.9	2413.9	2416.9	2419.9	2443.9
15°	2401.9	2398.9	2392.9	2383.9	2383.9	2383.9	2383.9	2380.9	2380.9	2383.9	2401.9
17.5°	2341.9	2335.9	2332.9	2326.9	2329.9	2332.9	2335.9	2332.9	2338.9	2347.9	2368.9
20°	2287.8	2281.8	2275.8	2266.8	2266.8	2269.8	2272.8	2272.8	2287.8	2299.8	2326.9
22.5°	2227.8	2224.8	2218.8	2215.8	2215.8	2218.8	2218.8	2212.8	2221.8	2239.8	2275.8
25°	2146.7	2143.7	2140.7	2140.7	2146.7	2152.7	2155.7	2158.7	2167.7	2179.7	2209.8
27.5°	2077.7	2074.7	2068.6	2062.6	2068.6	2074.7	2077.7	2083.7	2101.7	2125.7	2149.7
30°	2002.6	1999.6	1996.6	1996.6	2002.6	2005.6	2008.6	2005.6	2029.6	2065.6	2092.7
32.5°	1906.5	1903.5	1906.5	1906.5	1921.5	1930.5	1936.5	1939.5	1960.6	1993.6	2032.6
35°	1828.5	1828.5	1825.5	1831.5	1834.5	1840.5	1846.5	1861.5	1891.5	1924.5	1963.6
37.5°	1735.4	1735.4	1735.4	1750.4	1762.4	1765.4	1768.4	1786.4	1825.5	1858.5	1900.5
40°	1651.3	1651.3	1651.3	1657.3	1666.3	1675.3	1687.3	1708.4	1747.4	1795.4	1837.5
42.5°	1549.2	1552.2	1558.2	1573.3	1585.3	1591.3	1600.3	1633.3	1675.3	1732.4	1777.4
45°	1465.2	1462.2	1468.2	1480.2	1492.2	1504.2	1519.2	1555.2	1606.3	1669.3	1720.4
47.5°	1360.1	1363.1	1369.1	1390.1	1405.1	1420.1	1438.1	1480.2	1540.2	1603.3	1660.3
50°	1270.0	1273.0	1288.0	1300.0	1315.0	1333.1	1354.1	1408.1	1474.2	1537.2	1606.3
52.5°	1179.9	1182.9	1195.0	1204.0	1228.0	1249.0	1276.0	1336.1	1405.1	1474.2	1543.2
55°	1080.9	1086.9	1095.9	1116.9	1146.9	1170.9	1201.0	1267.0	1336.1	1411.1	1480.2
57.5°	987.8	990.8	1005.8	1026.8	1062.8	1092.9	1128.9	1198.0	1273.0	1345.1	1414.1
60°	900.7	906.7	915.7	942.8	990.8	1020.8	1056.8	1128.9	1207.0	1279.0	1351.1
62.5°	810.6	816.7	828.7	858.7	915.7	948.8	987.8	1062.8	1140.9	1213.0	1285.0
65°	708.6	714.6	732.6	771.6	840.7	876.7	915.7	993.8	1068.9	1143.9	1216.0
67.5°	621.5	624.5	648.5	690.5	762.6	807.6	849.7	924.7	999.8	1074.9	1146.9
70°	537.4	543.4	561.4	618.5	696.6	732.6	777.6	858.7	933.7	1008.8	1077.9
72.5°	453.4	459.4	486.4	549.4	630.5	669.5	705.6	792.6	867.7	939.7	1008.8
75°	369.3	378.3	414.3	486.4	564.4	603.5	642.5	720.6	801.6	870.7	936.7
77.5°	294.2	303.2	348.3	423.3	501.4	540.4	579.5	654.5	729.6	804.6	873.7
80°	222.2	234.2	288.2	363.3	441.4	480.4	516.4	594.5	666.5	735.6	807.6
82.5°	159.1	174.1	237.2	309.2	387.3	423.3	459.4	534.4	606.5	672.5	735.6
85°	99.1	126.1	189.2	258.2	333.3	369.3	405.3	480.4	549.4	615.5	675.5
87.5°	48.0	84.1	144.1	210.2	282.2	318.3	354.3	426.3	492.4	558.4	618.5
90°	3.0	48.0	102.1	165.1	237.2	270.2	306.2	375.3	441.4	504.4	561.4
92.5°	0.0	30.0	81.1	141.1	207.2	243.2	276.2	345.3	408.3	471.4	525.4
95°	0.0	15.0	63.1	120.1	183.1	213.2	246.2	312.2	375.3	435.3	489.4
97.5°	0.0	3.0	45.0	96.1	156.1	189.2	219.2	282.2	345.3	402.3	453.4
100°	0.0	0.0	30.0	78.1	132.1	162.1	192.2	252.2	312.2	366.3	417.3
102.5°	0.0	0.0	15.0	60.0	111.1	138.1	165.1	225.2	282.2	336.3	384.3
105°	0.0	0.0	3.0	42.0	90.1	114.1	141.1	195.2	252.2	303.2	351.3
107.5°	0.0	0.0	0.0	24.0	69.1	93.1	117.1	168.1	222.2	270.2	315.3
110°	0.0	0.0	0.0	12.0	51.0	72.1	96.1	144.1	192.2	240.2	285.2



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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	3.0	33.0	54.0	75.1	120.1	165.1	210.2	252.2
115°	0.0	0.0	0.0	0.0	18.0	36.0	54.0	96.1	138.1	183.1	222.2
117.5°	0.0	0.0	0.0	0.0	6.0	21.0	36.0	75.1	114.1	153.1	192.2
120°	0.0	0.0	0.0	0.0	0.0	9.0	21.0	54.0	90.1	126.1	162.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	33.0	66.1	102.1	135.1
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	45.0	78.1	108.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	27.0	54.0	81.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	33.0	57.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	18.0	36.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	18.0
137.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
140°	3.0	3.0	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°	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0
2.5°	2525.0	2513.0	2513.0	2510.0	2507.0	2504.0	2498.0	2495.0	2489.0	2492.0
5°	2519.0	2507.0	2507.0	2501.0	2498.0	2498.0	2495.0	2495.0	2492.0	2495.0
7.5°	2510.0	2495.0	2495.0	2489.0	2486.0	2483.0	2483.0	2483.0	2483.0	2486.0
10°	2486.0	2477.0	2477.0	2474.0	2471.0	2465.0	2462.0	2465.0	2462.0	2465.0
12.5°	2453.0	2443.9	2450.0	2450.0	2450.0	2443.9	2440.9	2443.9	2440.9	2443.9
15°	2410.9	2407.9	2416.9	2419.9	2422.9	2419.9	2416.9	2416.9	2416.9	2416.9
17.5°	2368.9	2365.9	2377.9	2383.9	2383.9	2383.9	2383.9	2380.9	2380.9	2383.9
20°	2332.9	2320.8	2326.9	2338.9	2341.9	2341.9	2344.9	2347.9	2347.9	2347.9
22.5°	2281.8	2275.8	2278.8	2287.8	2293.8	2296.8	2305.8	2305.8	2308.8	2311.8
25°	2221.8	2230.8	2233.8	2242.8	2245.8	2251.8	2263.8	2269.8	2269.8	2269.8
27.5°	2158.7	2176.7	2188.7	2194.7	2200.8	2206.8	2221.8	2233.8	2233.8	2233.8
30°	2098.7	2116.7	2140.7	2152.7	2158.7	2164.7	2185.7	2200.8	2203.8	2203.8
32.5°	2035.6	2059.6	2095.7	2113.7	2116.7	2125.7	2152.7	2170.7	2173.7	2173.7
35°	1981.6	2011.6	2050.6	2074.7	2080.7	2089.7	2119.7	2140.7	2143.7	2143.7
37.5°	1933.5	1963.6	2005.6	2038.6	2044.6	2056.6	2086.7	2113.7	2116.7	2119.7
40°	1879.5	1915.5	1957.6	1996.6	2008.6	2020.6	2053.6	2080.7	2086.7	2086.7
42.5°	1825.5	1870.5	1912.5	1957.6	1972.6	1984.6	2020.6	2047.6	2053.6	2053.6
45°	1768.4	1825.5	1867.5	1915.5	1933.5	1945.5	1978.6	2008.6	2017.6	2017.6
47.5°	1717.4	1777.4	1819.4	1867.5	1885.5	1903.5	1933.5	1963.6	1972.6	1975.6
50°	1660.3	1726.4	1768.4	1813.4	1837.5	1855.5	1885.5	1918.5	1927.5	1924.5
52.5°	1603.3	1666.3	1711.4	1759.4	1783.4	1801.4	1828.5	1864.5	1873.5	1873.5
55°	1543.2	1606.3	1654.3	1699.4	1723.4	1747.4	1774.4	1804.4	1816.4	1813.4
57.5°	1483.2	1540.2	1591.3	1639.3	1660.3	1684.3	1711.4	1741.4	1750.4	1756.4
60°	1420.1	1471.2	1528.2	1573.3	1594.3	1618.3	1645.3	1672.3	1687.3	1684.3
62.5°	1351.1	1408.1	1462.2	1504.2	1525.2	1549.2	1576.3	1600.3	1612.3	1618.3
65°	1282.0	1336.1	1387.1	1432.1	1450.2	1474.2	1504.2	1522.2	1537.2	1540.2
67.5°	1210.0	1264.0	1315.0	1363.1	1381.1	1402.1	1429.1	1447.2	1462.2	1465.2
70°	1137.9	1195.0	1246.0	1291.0	1309.0	1327.1	1354.1	1372.1	1387.1	1387.1
72.5°	1068.9	1125.9	1173.9	1219.0	1237.0	1252.0	1279.0	1297.0	1309.0	1312.0
75°	999.8	1053.8	1101.9	1146.9	1161.9	1179.9	1204.0	1222.0	1234.0	1237.0
77.5°	930.7	987.8	1032.8	1074.9	1089.9	1104.9	1131.9	1146.9	1158.9	1158.9
80°	864.7	918.7	963.8	1002.8	1014.8	1032.8	1056.8	1071.9	1080.9	1086.9
82.5°	801.6	852.7	894.7	930.7	948.8	960.8	984.8	999.8	1008.8	1014.8
85°	732.6	786.6	828.7	864.7	876.7	894.7	915.7	930.7	939.7	942.8
87.5°	669.5	717.6	759.6	801.6	816.7	828.7	849.7	864.7	873.7	879.7
90°	615.5	660.5	699.6	732.6	747.6	762.6	786.6	801.6	810.6	813.6
92.5°	576.5	621.5	657.5	690.5	705.6	717.6	738.6	753.6	762.6	765.6
95°	540.4	582.5	618.5	651.5	663.5	675.5	696.6	708.6	714.6	720.6
97.5°	501.4	546.4	579.5	609.5	624.5	633.5	654.5	666.5	675.5	678.5
100°	465.4	507.4	540.4	573.5	585.5	594.5	615.5	627.5	633.5	636.5
102.5°	429.3	471.4	504.4	534.4	546.4	555.4	573.5	585.5	594.5	597.5
105°	393.3	432.3	465.4	495.4	507.4	516.4	534.4	546.4	555.4	558.4
107.5°	360.3	396.3	429.3	456.4	468.4	477.4	495.4	507.4	516.4	519.4
110°	327.3	360.3	393.3	420.3	432.3	441.4	459.4	468.4	477.4	480.4



TEST NUMBER: P257075

CATALOG NUMBER: HGL-S-UF-50L830-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	291.2	327.3	357.3	384.3	393.3	405.3	420.3	432.3	438.3	441.4
115°	261.2	294.2	321.3	348.3	357.3	366.3	384.3	393.3	402.3	402.3
117.5°	228.2	258.2	288.2	312.2	321.3	330.3	348.3	357.3	363.3	366.3
120°	198.2	225.2	252.2	276.2	288.2	294.2	312.2	321.3	327.3	330.3
122.5°	168.1	195.2	222.2	243.2	252.2	261.2	276.2	285.2	291.2	294.2
125°	138.1	165.1	189.2	210.2	219.2	228.2	240.2	249.2	255.2	258.2
127.5°	111.1	135.1	159.1	177.1	186.1	195.2	207.2	216.2	222.2	225.2
130°	84.1	105.1	129.1	147.1	156.1	162.1	174.1	183.1	189.2	192.2
132.5°	57.0	78.1	99.1	117.1	126.1	132.1	144.1	150.1	156.1	159.1
135°	36.0	54.0	72.1	87.1	96.1	102.1	114.1	120.1	126.1	126.1
137.5°	18.0	33.0	48.0	60.0	66.1	75.1	84.1	90.1	93.1	96.1
140°	6.0	15.0	27.0	36.0	42.0	48.0	57.0	63.1	66.1	69.1
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)