

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: P257090

Luminaire Tested: **HGL-S-UF-50L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257090
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-50L930-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: 7456.3 lumens
Efficiency: N/A
Efficacy: 99.9 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

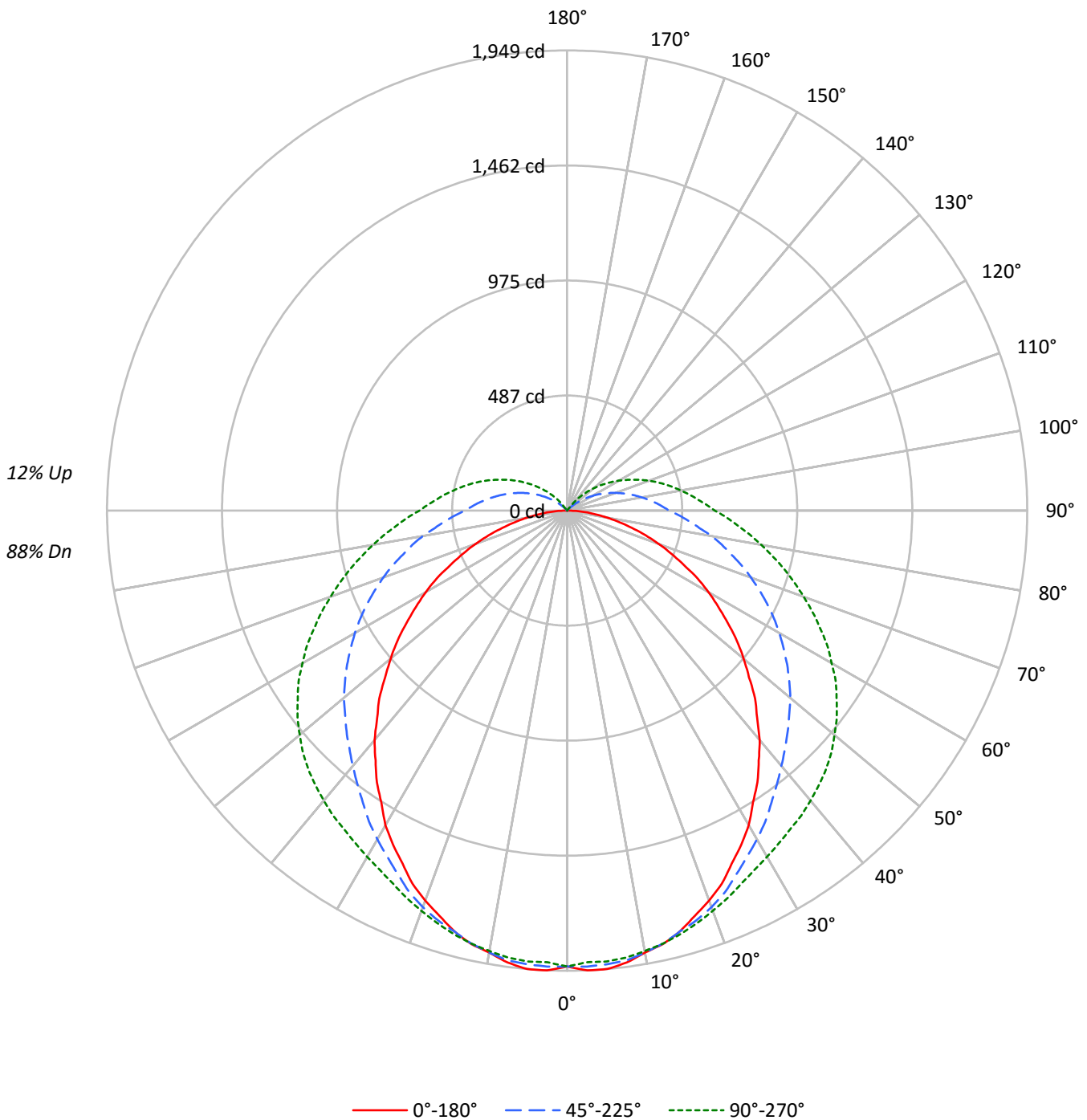
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	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°	11337	11337	11337
5°	11475	11047	10866
10°	11307	10708	10454
15°	11179	10305	10062
20°	10932	9970	9671
25°	10621	9530	9322
30°	10354	9154	9093
35°	9979	8781	8955
40°	9619	8471	8895
45°	9228	8248	8849
50°	8777	8087	8761
55°	8346	7908	8649
60°	7948	7751	8503
65°	7358	7595	8325
70°	6843	7450	8136
75°	6137	7308	7996
80°	5375	7298	7892
85°	4462	7317	7877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	2.5
10°-20°	520.0	7.0
20°-30°	780.3	10.5
30°-40°	947.4	12.7
40°-50°	1023.2	13.7
50°-60°	1002.2	13.4
60°-70°	888.9	11.9
70°-80°	712.0	9.5
80°-90°	516.0	6.9
90°-100°	363.7	4.9
100°-110°	253.7	3.4
110°-120°	157.1	2.1
120°-130°	79.9	1.1
130°-140°	27.7	0.4
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1483.2	19.9
0°-40°	2430.6	32.6
0°-60°	4456.0	59.8
0°-90°	6573.0	88.2
90°-120°	774.5	10.4
90°-150°	883.3	11.8
90°-180°	883.0	11.8
0°-180°	7456.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1949	1931	1929	1919	1917	184
15°	1846	1832	1846	1862	1857	519
25°	1649	1654	1698	1726	1744	761
35°	1405	1414	1509	1599	1647	877
45°	1126	1156	1322	1486	1550	865
55°	830	900	1137	1324	1393	744
65°	544	674	934	1114	1183	543
75°	284	464	720	893	950	303
85°	76	284	519	674	724	82
90°	2	208	431	574	625	6
95°	0	164	376	510	554	0
105°	0	88	270	390	429	0
115°	0	28	171	274	309	0
125°	0	0	83	168	198	0
135°	0	0	14	74	97	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°	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9
2.5°	1949.3	1947.0	1940.1	1933.2	1930.9	1930.9	1928.6	1926.3	1926.3	1923.9	1933.2
5°	1949.3	1947.0	1940.1	1930.9	1928.6	1930.9	1928.6	1923.9	1923.9	1921.6	1928.6
7.5°	1930.9	1926.3	1921.6	1914.7	1912.4	1912.4	1910.1	1910.1	1910.1	1910.1	1921.6
10°	1900.9	1898.6	1894.0	1887.0	1887.0	1884.7	1884.7	1887.0	1887.0	1889.3	1900.9
12.5°	1880.1	1875.5	1868.6	1861.7	1859.4	1859.4	1857.0	1854.7	1857.0	1859.4	1877.8
15°	1845.5	1843.2	1838.6	1831.7	1831.7	1831.7	1831.7	1829.4	1829.4	1831.7	1845.5
17.5°	1799.4	1794.8	1792.5	1787.8	1790.1	1792.5	1794.8	1792.5	1797.1	1804.0	1820.1
20°	1757.9	1753.2	1748.6	1741.7	1741.7	1744.0	1746.3	1746.3	1757.9	1767.1	1787.8
22.5°	1711.7	1709.4	1704.8	1702.5	1702.5	1704.8	1704.8	1700.2	1707.1	1720.9	1748.6
25°	1649.4	1647.1	1644.8	1644.8	1649.4	1654.0	1656.3	1658.7	1665.6	1674.8	1697.9
27.5°	1596.4	1594.1	1589.4	1584.8	1589.4	1594.1	1596.4	1601.0	1614.8	1633.3	1651.7
30°	1538.7	1536.4	1534.1	1534.1	1538.7	1541.0	1543.3	1541.0	1559.5	1587.1	1607.9
32.5°	1464.9	1462.6	1464.9	1464.9	1476.4	1483.3	1487.9	1490.3	1506.4	1531.8	1561.8
35°	1404.9	1404.9	1402.6	1407.2	1409.5	1414.1	1418.7	1430.3	1453.3	1478.7	1508.7
37.5°	1333.4	1333.4	1333.4	1344.9	1354.1	1356.5	1358.8	1372.6	1402.6	1428.0	1460.3
40°	1268.8	1268.8	1268.8	1273.4	1280.3	1287.2	1296.5	1312.6	1342.6	1379.5	1411.8
42.5°	1190.4	1192.7	1197.3	1208.8	1218.0	1222.7	1229.6	1254.9	1287.2	1331.1	1365.7
45°	1125.8	1123.5	1128.1	1137.3	1146.5	1155.8	1167.3	1195.0	1234.2	1282.6	1321.8
47.5°	1045.0	1047.3	1051.9	1068.1	1079.6	1091.2	1105.0	1137.3	1183.4	1231.9	1275.7
50°	975.8	978.1	989.7	998.9	1010.4	1024.3	1040.4	1081.9	1132.7	1181.1	1234.2
52.5°	906.6	908.9	918.1	925.1	943.5	959.7	980.4	1026.6	1079.6	1132.7	1185.7
55°	830.5	835.1	842.0	858.2	881.2	899.7	922.8	973.5	1026.6	1084.2	1137.3
57.5°	759.0	761.3	772.8	789.0	816.6	839.7	867.4	920.4	978.1	1033.5	1086.5
60°	692.1	696.7	703.6	724.4	761.3	784.3	812.0	867.4	927.4	982.7	1038.1
62.5°	622.9	627.5	636.7	659.8	703.6	729.0	759.0	816.6	876.6	932.0	987.3
65°	544.4	549.0	562.9	592.9	645.9	673.6	703.6	763.6	821.3	878.9	934.3
67.5°	477.5	479.8	498.3	530.6	586.0	620.6	652.9	710.5	768.2	825.9	881.2
70°	412.9	417.5	431.4	475.2	535.2	562.9	597.5	659.8	717.4	775.1	828.2
72.5°	348.3	353.0	373.7	422.2	484.4	514.4	542.1	609.0	666.7	722.1	775.1
75°	283.7	290.7	318.4	373.7	433.7	463.7	493.7	553.7	615.9	669.0	719.7
77.5°	226.1	233.0	267.6	325.3	385.3	415.2	445.2	502.9	560.6	618.2	671.3
80°	170.7	179.9	221.5	279.1	339.1	369.1	396.8	456.8	512.1	565.2	620.6
82.5°	122.3	133.8	182.2	237.6	297.6	325.3	353.0	410.6	466.0	516.7	565.2
85°	76.1	96.9	145.3	198.4	256.1	283.7	311.4	369.1	422.2	472.9	519.1
87.5°	36.9	64.6	110.7	161.5	216.8	244.5	272.2	327.6	378.3	429.1	475.2
90°	2.3	36.9	78.4	126.9	182.2	207.6	235.3	288.4	339.1	387.6	431.4
92.5°	0.0	23.1	62.3	108.4	159.2	186.9	212.2	265.3	313.7	362.2	403.7
95°	0.0	11.5	48.4	92.3	140.7	163.8	189.2	239.9	288.4	334.5	376.0
97.5°	0.0	2.3	34.6	73.8	120.0	145.3	168.4	216.8	265.3	309.1	348.3
100°	0.0	0.0	23.1	60.0	101.5	124.6	147.6	193.8	239.9	281.4	320.7
102.5°	0.0	0.0	11.5	46.1	85.4	106.1	126.9	173.0	216.8	258.4	295.3
105°	0.0	0.0	2.3	32.3	69.2	87.7	108.4	149.9	193.8	233.0	269.9
107.5°	0.0	0.0	0.0	18.5	53.1	71.5	90.0	129.2	170.7	207.6	242.2
110°	0.0	0.0	0.0	9.2	39.2	55.4	73.8	110.7	147.6	184.6	219.2



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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	2.3	25.4	41.5	57.7	92.3	126.9	161.5	193.8
115°	0.0	0.0	0.0	0.0	13.8	27.7	41.5	73.8	106.1	140.7	170.7
117.5°	0.0	0.0	0.0	0.0	4.6	16.1	27.7	57.7	87.7	117.7	147.6
120°	0.0	0.0	0.0	0.0	0.0	6.9	16.1	41.5	69.2	96.9	124.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	25.4	50.8	78.4	103.8
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	34.6	60.0	83.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	20.8	41.5	62.3
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	25.4	43.8
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	13.8	27.7
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	13.8
137.5°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
140°	2.3	2.3	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°	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9	1930.9
2.5°	1940.1	1930.9	1930.9	1928.6	1926.3	1923.9	1919.3	1917.0	1912.4	1914.7
5°	1935.5	1926.3	1926.3	1921.6	1919.3	1919.3	1917.0	1917.0	1914.7	1917.0
7.5°	1928.6	1917.0	1917.0	1912.4	1910.1	1907.8	1907.8	1907.8	1907.8	1910.1
10°	1910.1	1903.2	1903.2	1900.9	1898.6	1894.0	1891.7	1894.0	1891.7	1894.0
12.5°	1884.7	1877.8	1882.4	1882.4	1882.4	1877.8	1875.5	1877.8	1875.5	1877.8
15°	1852.4	1850.1	1857.0	1859.4	1861.7	1859.4	1857.0	1857.0	1857.0	1857.0
17.5°	1820.1	1817.8	1827.1	1831.7	1831.7	1831.7	1831.7	1829.4	1829.4	1831.7
20°	1792.5	1783.2	1787.8	1797.1	1799.4	1799.4	1801.7	1804.0	1804.0	1804.0
22.5°	1753.2	1748.6	1750.9	1757.9	1762.5	1764.8	1771.7	1771.7	1774.0	1776.3
25°	1707.1	1714.0	1716.3	1723.2	1725.6	1730.2	1739.4	1744.0	1744.0	1744.0
27.5°	1658.7	1672.5	1681.7	1686.3	1691.0	1695.6	1707.1	1716.3	1716.3	1716.3
30°	1612.5	1626.4	1644.8	1654.0	1658.7	1663.3	1679.4	1691.0	1693.3	1693.3
32.5°	1564.1	1582.5	1610.2	1624.1	1626.4	1633.3	1654.0	1667.9	1670.2	1670.2
35°	1522.5	1545.6	1575.6	1594.1	1598.7	1605.6	1628.7	1644.8	1647.1	1647.1
37.5°	1485.6	1508.7	1541.0	1566.4	1571.0	1580.2	1603.3	1624.1	1626.4	1628.7
40°	1444.1	1471.8	1504.1	1534.1	1543.3	1552.5	1577.9	1598.7	1603.3	1603.3
42.5°	1402.6	1437.2	1469.5	1504.1	1515.6	1524.9	1552.5	1573.3	1577.9	1577.9
45°	1358.8	1402.6	1434.9	1471.8	1485.6	1494.9	1520.2	1543.3	1550.2	1550.2
47.5°	1319.5	1365.7	1398.0	1434.9	1448.7	1462.6	1485.6	1508.7	1515.6	1517.9
50°	1275.7	1326.5	1358.8	1393.4	1411.8	1425.7	1448.7	1474.1	1481.0	1478.7
52.5°	1231.9	1280.3	1314.9	1351.8	1370.3	1384.1	1404.9	1432.6	1439.5	1439.5
55°	1185.7	1234.2	1271.1	1305.7	1324.2	1342.6	1363.4	1386.4	1395.7	1393.4
57.5°	1139.6	1183.4	1222.7	1259.6	1275.7	1294.2	1314.9	1338.0	1344.9	1349.5
60°	1091.2	1130.4	1174.2	1208.8	1225.0	1243.4	1264.2	1284.9	1296.5	1294.2
62.5°	1038.1	1081.9	1123.5	1155.8	1171.9	1190.4	1211.1	1229.6	1238.8	1243.4
65°	985.0	1026.6	1065.8	1100.4	1114.2	1132.7	1155.8	1169.6	1181.1	1183.4
67.5°	929.7	971.2	1010.4	1047.3	1061.2	1077.3	1098.1	1111.9	1123.5	1125.8
70°	874.3	918.1	957.4	992.0	1005.8	1019.6	1040.4	1054.2	1065.8	1065.8
72.5°	821.3	865.1	902.0	936.6	950.4	962.0	982.7	996.6	1005.8	1008.1
75°	768.2	809.7	846.6	881.2	892.8	906.6	925.1	938.9	948.1	950.4
77.5°	715.1	759.0	793.6	825.9	837.4	848.9	869.7	881.2	890.5	890.5
80°	664.4	705.9	740.5	770.5	779.7	793.6	812.0	823.6	830.5	835.1
82.5°	615.9	655.2	687.5	715.1	729.0	738.2	756.7	768.2	775.1	779.7
85°	562.9	604.4	636.7	664.4	673.6	687.5	703.6	715.1	722.1	724.4
87.5°	514.4	551.3	583.6	615.9	627.5	636.7	652.9	664.4	671.3	675.9
90°	472.9	507.5	537.5	562.9	574.4	586.0	604.4	615.9	622.9	625.2
92.5°	442.9	477.5	505.2	530.6	542.1	551.3	567.5	579.0	586.0	588.3
95°	415.2	447.5	475.2	500.6	509.8	519.1	535.2	544.4	549.0	553.7
97.5°	385.3	419.9	445.2	468.3	479.8	486.8	502.9	512.1	519.1	521.4
100°	357.6	389.9	415.2	440.6	449.8	456.8	472.9	482.1	486.8	489.1
102.5°	329.9	362.2	387.6	410.6	419.9	426.8	440.6	449.8	456.8	459.1
105°	302.2	332.2	357.6	380.6	389.9	396.8	410.6	419.9	426.8	429.1
107.5°	276.8	304.5	329.9	350.6	359.9	366.8	380.6	389.9	396.8	399.1
110°	251.5	276.8	302.2	323.0	332.2	339.1	353.0	359.9	366.8	369.1



TEST NUMBER: P257090

CATALOG NUMBER: HGL-S-UF-50L930-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	223.8	251.5	274.5	295.3	302.2	311.4	323.0	332.2	336.8	339.1
115°	200.7	226.1	246.8	267.6	274.5	281.4	295.3	302.2	309.1	309.1
117.5°	175.3	198.4	221.5	239.9	246.8	253.8	267.6	274.5	279.1	281.4
120°	152.3	173.0	193.8	212.2	221.5	226.1	239.9	246.8	251.5	253.8
122.5°	129.2	149.9	170.7	186.9	193.8	200.7	212.2	219.2	223.8	226.1
125°	106.1	126.9	145.3	161.5	168.4	175.3	184.6	191.5	196.1	198.4
127.5°	85.4	103.8	122.3	136.1	143.0	149.9	159.2	166.1	170.7	173.0
130°	64.6	80.7	99.2	113.0	120.0	124.6	133.8	140.7	145.3	147.6
132.5°	43.8	60.0	76.1	90.0	96.9	101.5	110.7	115.3	120.0	122.3
135°	27.7	41.5	55.4	66.9	73.8	78.4	87.7	92.3	96.9	96.9
137.5°	13.8	25.4	36.9	46.1	50.8	57.7	64.6	69.2	71.5	73.8
140°	4.6	11.5	20.8	27.7	32.3	36.9	43.8	48.4	50.8	53.1
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)