

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: P257055

Luminaire Tested: **HGL-S-UF-80L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257055
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-80L835-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

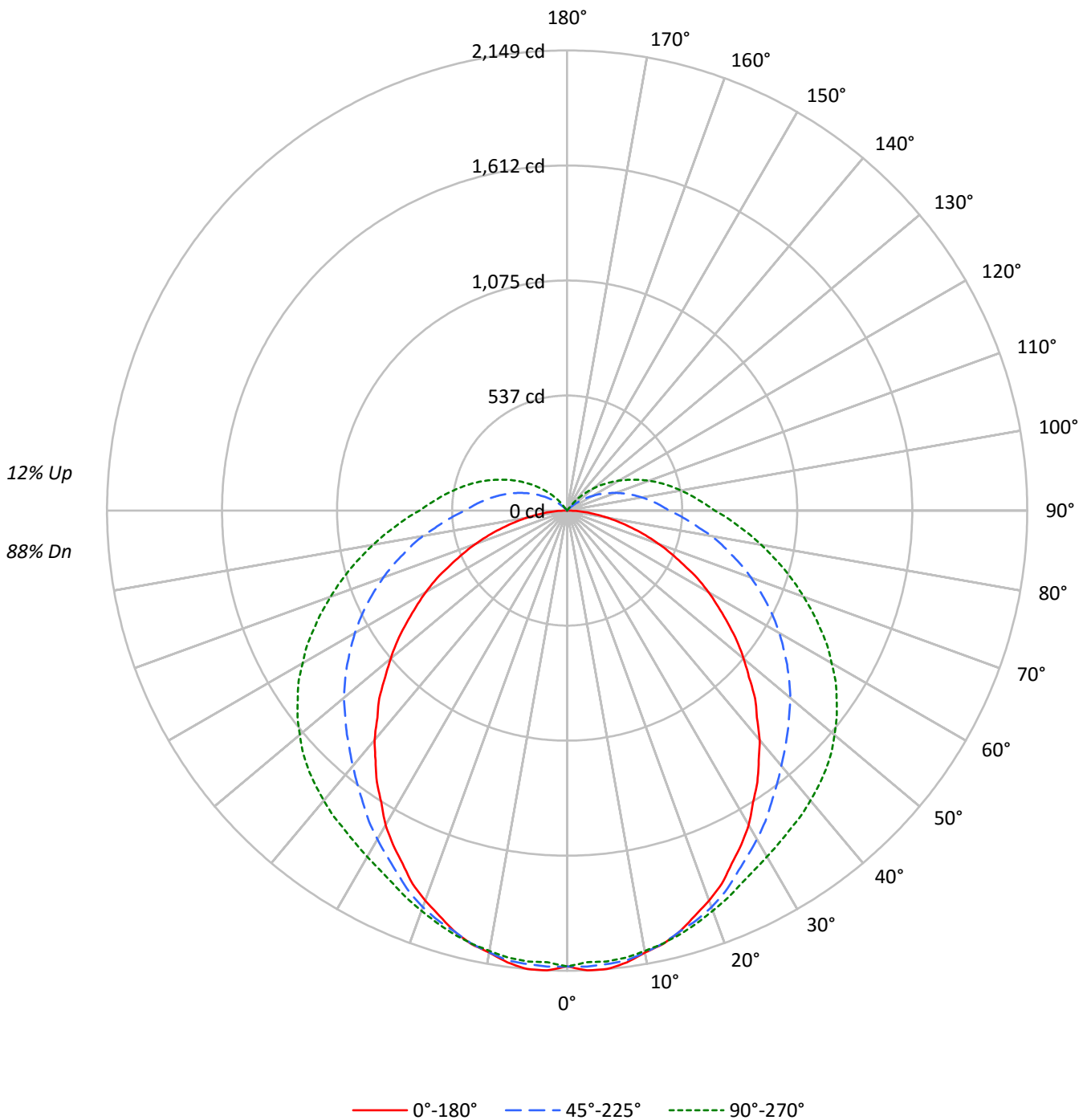
Lumens per Lamp: N/A
Luminaire Lumens: 8220.7 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.9
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°	24997	24997	24997
5°	25276	24340	23961
10°	24875	23577	23050
15°	24564	22671	22187
20°	23991	21920	21325
25°	23278	20935	20556
30°	22661	20094	20051
35°	21806	19261	19747
40°	20985	18566	19615
45°	20089	18064	19514
50°	19063	17692	19318
55°	18072	17283	19070
60°	17146	16920	18748
65°	15794	16556	18358
70°	14588	16212	17938
75°	12934	15871	17632
80°	11089	15806	17401
85°	8711	15787	17367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	2.5
10°-20°	573.4	7.0
20°-30°	860.3	10.5
30°-40°	1044.5	12.7
40°-50°	1128.2	13.7
50°-60°	1104.9	13.4
60°-70°	980.0	11.9
70°-80°	785.0	9.5
80°-90°	568.9	6.9
90°-100°	401.0	4.9
100°-110°	279.7	3.4
110°-120°	173.2	2.1
120°-130°	88.1	1.1
130°-140°	30.5	0.4
140°-150°	1.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1635.3	19.9
0°-40°	2679.8	32.6
0°-60°	4912.8	59.8
0°-90°	7246.8	88.2
90°-120°	853.8	10.4
90°-150°	973.9	11.8
90°-180°	974.0	11.8
0°-180°	8220.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2129	2129	2129	2129	2129	
5°	2149	2129	2126	2116	2114	203
15°	2035	2020	2035	2052	2047	572
25°	1818	1824	1872	1902	1923	839
35°	1549	1559	1663	1763	1816	967
45°	1241	1274	1457	1638	1709	954
55°	916	992	1254	1460	1536	821
65°	600	743	1030	1228	1305	599
75°	313	511	794	984	1048	334
85°	84	313	572	743	799	91
90°	2	229	476	633	689	6
95°	0	181	415	562	610	0
105°	0	97	298	430	473	0
115°	0	30	188	303	341	0
125°	0	0	92	186	219	0
135°	0	0	15	81	107	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°	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8
2.5°	2149.2	2146.6	2139.0	2131.4	2128.8	2128.8	2126.3	2123.7	2123.7	2121.2	2131.4
5°	2149.2	2146.6	2139.0	2128.8	2126.3	2128.8	2126.3	2121.2	2121.2	2118.6	2126.3
7.5°	2128.8	2123.7	2118.6	2111.0	2108.5	2108.5	2105.9	2105.9	2105.9	2105.9	2118.6
10°	2095.8	2093.2	2088.1	2080.5	2080.5	2078.0	2078.0	2080.5	2080.5	2083.0	2095.8
12.5°	2072.9	2067.8	2060.2	2052.5	2050.0	2050.0	2047.4	2044.9	2047.4	2050.0	2070.3
15°	2034.7	2032.2	2027.1	2019.5	2019.5	2019.5	2019.5	2016.9	2016.9	2019.5	2034.7
17.5°	1983.8	1978.8	1976.2	1971.1	1973.7	1976.2	1978.8	1976.2	1981.3	1988.9	2006.7
20°	1938.1	1933.0	1927.9	1920.3	1920.3	1922.8	1925.4	1925.4	1938.1	1948.2	1971.1
22.5°	1887.2	1884.7	1879.6	1877.0	1877.0	1879.6	1879.6	1874.5	1882.1	1897.4	1927.9
25°	1818.5	1816.0	1813.4	1813.4	1818.5	1823.6	1826.2	1828.7	1836.3	1846.5	1871.9
27.5°	1760.0	1757.5	1752.4	1747.3	1752.4	1757.5	1760.0	1765.1	1780.4	1800.7	1821.1
30°	1696.4	1693.9	1691.4	1691.4	1696.4	1699.0	1701.5	1699.0	1719.3	1749.9	1772.7
32.5°	1615.1	1612.5	1615.1	1615.1	1627.8	1635.4	1640.5	1643.0	1660.8	1688.8	1721.9
35°	1548.9	1548.9	1546.4	1551.5	1554.0	1559.1	1564.2	1576.9	1602.3	1630.3	1663.4
37.5°	1470.1	1470.1	1470.1	1482.8	1493.0	1495.5	1498.1	1513.3	1546.4	1574.4	1610.0
40°	1398.9	1398.9	1398.9	1404.0	1411.6	1419.2	1429.4	1447.2	1480.3	1521.0	1556.6
42.5°	1312.4	1314.9	1320.0	1332.7	1342.9	1348.0	1355.6	1383.6	1419.2	1467.5	1505.7
45°	1241.2	1238.6	1243.7	1253.9	1264.1	1274.2	1287.0	1317.5	1360.7	1414.1	1457.4
47.5°	1152.2	1154.7	1159.8	1177.6	1190.3	1203.0	1218.3	1253.9	1304.8	1358.2	1406.5
50°	1075.9	1078.4	1091.1	1101.3	1114.0	1129.3	1147.1	1192.9	1248.8	1302.2	1360.7
52.5°	999.6	1002.1	1012.3	1019.9	1040.2	1058.1	1080.9	1131.8	1190.3	1248.8	1307.3
55°	915.6	920.7	928.3	946.1	971.6	991.9	1017.4	1073.3	1131.8	1195.4	1253.9
57.5°	836.8	839.3	852.0	869.8	900.4	925.8	956.3	1014.8	1078.4	1139.4	1197.9
60°	763.0	768.1	775.7	798.6	839.3	864.8	895.3	956.3	1022.4	1083.5	1144.5
62.5°	686.7	691.8	702.0	727.4	775.7	803.7	836.8	900.4	966.5	1027.5	1088.6
65°	600.2	605.3	620.6	653.7	712.2	742.7	775.7	841.9	905.4	969.0	1030.1
67.5°	526.5	529.0	549.4	585.0	646.0	684.2	719.8	783.4	847.0	910.5	971.6
70°	455.3	460.4	475.6	523.9	590.1	620.6	658.7	727.4	791.0	854.6	913.1
72.5°	384.1	389.1	412.0	465.4	534.1	567.2	597.7	671.5	735.0	796.1	854.6
75°	312.8	320.5	351.0	412.0	478.2	511.2	544.3	610.4	679.1	737.6	793.5
77.5°	249.3	256.9	295.0	358.6	424.7	457.8	490.9	554.5	618.0	681.6	740.1
80°	188.2	198.4	244.2	307.8	373.9	406.9	437.5	503.6	564.6	623.1	684.2
82.5°	134.8	147.5	200.9	262.0	328.1	358.6	389.1	452.7	513.8	569.7	623.1
85°	83.9	106.8	160.2	218.7	282.3	312.8	343.4	406.9	465.4	521.4	572.3
87.5°	40.7	71.2	122.1	178.0	239.1	269.6	300.1	361.2	417.1	473.1	523.9
90°	2.5	40.7	86.5	139.9	200.9	228.9	259.4	317.9	373.9	427.3	475.6
92.5°	0.0	25.4	68.7	119.5	175.5	206.0	234.0	292.5	345.9	399.3	445.1
95°	0.0	12.7	53.4	101.7	155.1	180.6	208.6	264.5	317.9	368.8	414.6
97.5°	0.0	2.5	38.2	81.4	132.3	160.2	185.7	239.1	292.5	340.8	384.1
100°	0.0	0.0	25.4	66.1	111.9	137.3	162.8	213.6	264.5	310.3	353.5
102.5°	0.0	0.0	12.7	50.9	94.1	117.0	139.9	190.8	239.1	284.9	325.6
105°	0.0	0.0	2.5	35.6	76.3	96.6	119.5	165.3	213.6	256.9	297.6
107.5°	0.0	0.0	0.0	20.3	58.5	78.8	99.2	142.4	188.2	228.9	267.1
110°	0.0	0.0	0.0	10.2	43.2	61.0	81.4	122.1	162.8	203.5	241.6



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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	2.5	28.0	45.8	63.6	101.7	139.9	178.0	213.6
115°	0.0	0.0	0.0	0.0	15.3	30.5	45.8	81.4	117.0	155.1	188.2
117.5°	0.0	0.0	0.0	0.0	5.1	17.8	30.5	63.6	96.6	129.7	162.8
120°	0.0	0.0	0.0	0.0	0.0	7.6	17.8	45.8	76.3	106.8	137.3
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	28.0	56.0	86.5	114.5
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	38.2	66.1	91.6
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	22.9	45.8	68.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	28.0	48.3
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	15.3	30.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	15.3
137.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
140°	2.5	2.5	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°	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8	2128.8
2.5°	2139.0	2128.8	2128.8	2126.3	2123.7	2121.2	2116.1	2113.6	2108.5	2111.0
5°	2133.9	2123.7	2123.7	2118.6	2116.1	2116.1	2113.6	2113.6	2111.0	2113.6
7.5°	2126.3	2113.6	2113.6	2108.5	2105.9	2103.4	2103.4	2103.4	2103.4	2105.9
10°	2105.9	2098.3	2098.3	2095.8	2093.2	2088.1	2085.6	2088.1	2085.6	2088.1
12.5°	2078.0	2070.3	2075.4	2075.4	2075.4	2070.3	2067.8	2070.3	2067.8	2070.3
15°	2042.3	2039.8	2047.4	2050.0	2052.5	2050.0	2047.4	2047.4	2047.4	2047.4
17.5°	2006.7	2004.2	2014.4	2019.5	2019.5	2019.5	2019.5	2016.9	2016.9	2019.5
20°	1976.2	1966.0	1971.1	1981.3	1983.8	1983.8	1986.4	1988.9	1988.9	1988.9
22.5°	1933.0	1927.9	1930.4	1938.1	1943.2	1945.7	1953.3	1953.3	1955.9	1958.4
25°	1882.1	1889.7	1892.3	1899.9	1902.5	1907.5	1917.7	1922.8	1922.8	1922.8
27.5°	1828.7	1844.0	1854.1	1859.2	1864.3	1869.4	1882.1	1892.3	1892.3	1892.3
30°	1777.8	1793.1	1813.4	1823.6	1828.7	1833.8	1851.6	1864.3	1866.9	1866.9
32.5°	1724.4	1744.8	1775.3	1790.6	1793.1	1800.7	1823.6	1838.9	1841.4	1841.4
35°	1678.6	1704.1	1737.1	1757.5	1762.6	1770.2	1795.6	1813.4	1816.0	1816.0
37.5°	1637.9	1663.4	1699.0	1727.0	1732.1	1742.2	1767.7	1790.6	1793.1	1795.6
40°	1592.2	1622.7	1658.3	1691.4	1701.5	1711.7	1739.7	1762.6	1767.7	1767.7
42.5°	1546.4	1584.5	1620.1	1658.3	1671.0	1681.2	1711.7	1734.6	1739.7	1739.7
45°	1498.1	1546.4	1582.0	1622.7	1637.9	1648.1	1676.1	1701.5	1709.2	1709.2
47.5°	1454.8	1505.7	1541.3	1582.0	1597.3	1612.5	1637.9	1663.4	1671.0	1673.6
50°	1406.5	1462.5	1498.1	1536.2	1556.6	1571.8	1597.3	1625.2	1632.9	1630.3
52.5°	1358.2	1411.6	1449.7	1490.4	1510.8	1526.0	1548.9	1579.4	1587.1	1587.1
55°	1307.3	1360.7	1401.4	1439.6	1459.9	1480.3	1503.1	1528.6	1538.8	1536.2
57.5°	1256.4	1304.8	1348.0	1388.7	1406.5	1426.8	1449.7	1475.2	1482.8	1487.9
60°	1203.0	1246.3	1294.6	1332.7	1350.5	1370.9	1393.8	1416.7	1429.4	1426.8
62.5°	1144.5	1192.9	1238.6	1274.2	1292.0	1312.4	1335.3	1355.6	1365.8	1370.9
65°	1086.0	1131.8	1175.0	1213.2	1228.5	1248.8	1274.2	1289.5	1302.2	1304.8
67.5°	1025.0	1070.8	1114.0	1154.7	1170.0	1187.8	1210.7	1225.9	1238.6	1241.2
70°	963.9	1012.3	1055.5	1093.7	1108.9	1124.2	1147.1	1162.3	1175.0	1175.0
72.5°	905.4	953.8	994.5	1032.6	1047.9	1060.6	1083.5	1098.7	1108.9	1111.5
75°	847.0	892.7	933.4	971.6	984.3	999.6	1019.9	1035.2	1045.3	1047.9
77.5°	788.5	836.8	874.9	910.5	923.3	936.0	958.9	971.6	981.8	981.8
80°	732.5	778.3	816.4	849.5	859.7	874.9	895.3	908.0	915.6	920.7
82.5°	679.1	722.3	757.9	788.5	803.7	813.9	834.2	847.0	854.6	859.7
85°	620.6	666.4	702.0	732.5	742.7	757.9	775.7	788.5	796.1	798.6
87.5°	567.2	607.9	643.5	679.1	691.8	702.0	719.8	732.5	740.1	745.2
90°	521.4	559.5	592.6	620.6	633.3	646.0	666.4	679.1	686.7	689.3
92.5°	488.3	526.5	557.0	585.0	597.7	607.9	625.7	638.4	646.0	648.6
95°	457.8	493.4	523.9	551.9	562.1	572.3	590.1	600.2	605.3	610.4
97.5°	424.7	462.9	490.9	516.3	529.0	536.7	554.5	564.6	572.3	574.8
100°	394.2	429.8	457.8	485.8	496.0	503.6	521.4	531.6	536.7	539.2
102.5°	363.7	399.3	427.3	452.7	462.9	470.5	485.8	496.0	503.6	506.1
105°	333.2	366.2	394.2	419.7	429.8	437.5	452.7	462.9	470.5	473.1
107.5°	305.2	335.7	363.7	386.6	396.8	404.4	419.7	429.8	437.5	440.0
110°	277.2	305.2	333.2	356.1	366.2	373.9	389.1	396.8	404.4	406.9



TEST NUMBER: P257055

CATALOG NUMBER: HGL-S-UF-80L835-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	246.7	277.2	302.7	325.6	333.2	343.4	356.1	366.2	371.3	373.9
115°	221.3	249.3	272.1	295.0	302.7	310.3	325.6	333.2	340.8	340.8
117.5°	193.3	218.7	244.2	264.5	272.1	279.8	295.0	302.7	307.8	310.3
120°	167.9	190.8	213.6	234.0	244.2	249.3	264.5	272.1	277.2	279.8
122.5°	142.4	165.3	188.2	206.0	213.6	221.3	234.0	241.6	246.7	249.3
125°	117.0	139.9	160.2	178.0	185.7	193.3	203.5	211.1	216.2	218.7
127.5°	94.1	114.5	134.8	150.1	157.7	165.3	175.5	183.1	188.2	190.8
130°	71.2	89.0	109.4	124.6	132.3	137.3	147.5	155.1	160.2	162.8
132.5°	48.3	66.1	83.9	99.2	106.8	111.9	122.1	127.2	132.3	134.8
135°	30.5	45.8	61.0	73.8	81.4	86.5	96.6	101.7	106.8	106.8
137.5°	15.3	28.0	40.7	50.9	56.0	63.6	71.2	76.3	78.8	81.4
140°	5.1	12.7	22.9	30.5	35.6	40.7	48.3	53.4	56.0	58.5
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)