

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: P257103

Luminaire Tested: **HGL-S-UF-30L835-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257103  
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-30L835-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT  
Light Source: (504) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9554.2 lumens  
Efficiency: N/A  
Efficacy: 146.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct

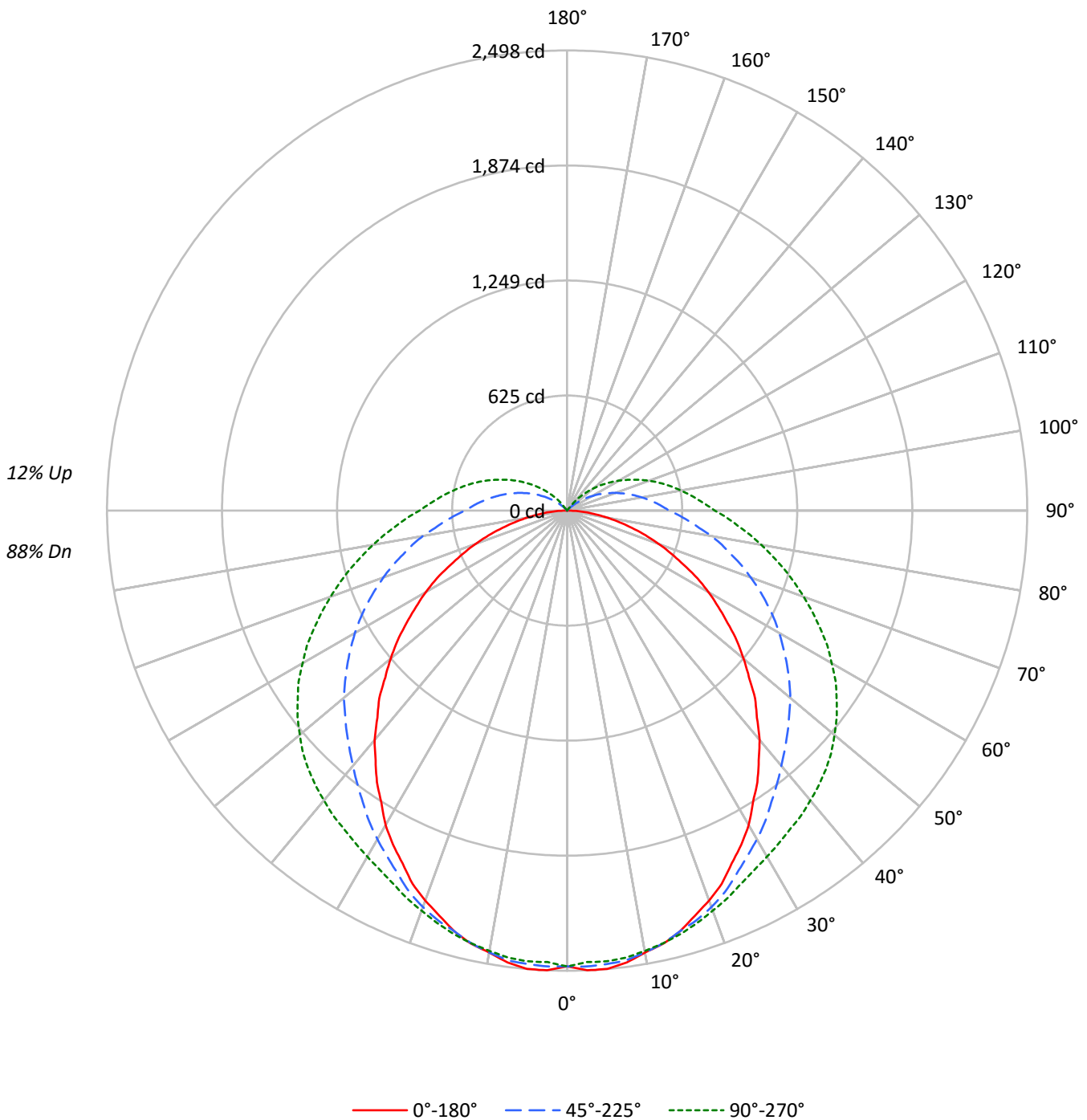
Input Watts (W): 65.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	9684	9684	9684
5°	9807	9439	9282
10°	9666	9152	8930
15°	9560	8810	8596
20°	9353	8526	8262
25°	9091	8151	7963
30°	8867	7831	7768
35°	8550	7514	7650
40°	8247	7251	7599
45°	7916	7063	7559
50°	7536	6926	7484
55°	7173	6775	7388
60°	6839	6644	7263
65°	6343	6513	7112
70°	5914	6392	6950
75°	5326	6276	6831
80°	4698	6272	6742
85°	3983	6296	6728



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.3	2.5
10°-20°	666.4	7.0
20°-30°	999.8	10.5
30°-40°	1213.9	12.7
40°-50°	1311.2	13.7
50°-60°	1284.1	13.4
60°-70°	1139.0	11.9
70°-80°	912.4	9.5
80°-90°	661.2	6.9
90°-100°	466.0	4.9
100°-110°	325.1	3.4
110°-120°	201.3	2.1
120°-130°	102.3	1.1
130°-140°	35.4	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°	1900.5	19.9
0°-40°	3114.4	32.6
0°-60°	5709.7	59.8
0°-90°	8422.4	88.2
90°-120°	992.4	10.4
90°-150°	1131.8	11.8
90°-180°	1132.0	11.8
0°-180°	9554.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2474	2474	2474	2474	2474	
5°	2498	2474	2471	2459	2456	236
15°	2365	2347	2365	2386	2380	665
25°	2114	2119	2176	2211	2235	976
35°	1800	1812	1933	2048	2111	1124
45°	1442	1481	1694	1904	1986	1108
55°	1064	1153	1457	1697	1785	954
65°	698	863	1197	1428	1516	696
75°	364	594	922	1144	1218	389
85°	98	364	665	863	928	105
90°	3	266	553	736	801	7
95°	0	210	482	653	709	0
105°	0	112	346	500	550	0
115°	0	36	219	352	396	0
125°	0	0	106	216	254	0
135°	0	0	18	95	124	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°	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2
2.5°	2497.8	2494.8	2486.0	2477.1	2474.2	2474.2	2471.2	2468.2	2468.2	2465.3	2477.1
5°	2497.8	2494.8	2486.0	2474.2	2471.2	2474.2	2471.2	2465.3	2465.3	2462.3	2471.2
7.5°	2474.2	2468.2	2462.3	2453.5	2450.5	2450.5	2447.5	2447.5	2447.5	2447.5	2462.3
10°	2435.7	2432.8	2426.9	2418.0	2418.0	2415.0	2415.0	2418.0	2418.0	2420.9	2435.7
12.5°	2409.1	2403.2	2394.3	2385.5	2382.5	2382.5	2379.6	2376.6	2379.6	2382.5	2406.2
15°	2364.8	2361.8	2355.9	2347.0	2347.0	2347.0	2347.0	2344.1	2344.1	2347.0	2364.8
17.5°	2305.7	2299.7	2296.8	2290.9	2293.8	2296.8	2299.7	2296.8	2302.7	2311.6	2332.3
20°	2252.5	2246.5	2240.6	2231.8	2231.8	2234.7	2237.7	2237.7	2252.5	2264.3	2290.9
22.5°	2193.3	2190.4	2184.5	2181.5	2181.5	2184.5	2184.5	2178.6	2187.4	2205.2	2240.6
25°	2113.5	2110.6	2107.6	2107.6	2113.5	2119.4	2122.4	2125.3	2134.2	2146.0	2175.6
27.5°	2045.5	2042.6	2036.7	2030.8	2036.7	2042.6	2045.5	2051.4	2069.2	2092.8	2116.5
30°	1971.6	1968.7	1965.7	1965.7	1971.6	1974.6	1977.5	1974.6	1998.2	2033.7	2060.3
32.5°	1877.0	1874.1	1877.0	1877.0	1891.8	1900.7	1906.6	1909.6	1930.3	1962.8	2001.2
35°	1800.2	1800.2	1797.2	1803.1	1806.1	1812.0	1817.9	1832.7	1862.3	1894.8	1933.2
37.5°	1708.6	1708.6	1708.6	1723.3	1735.2	1738.1	1741.1	1758.8	1797.2	1829.7	1871.1
40°	1625.8	1625.8	1625.8	1631.7	1640.6	1649.4	1661.3	1681.9	1720.4	1767.7	1809.1
42.5°	1525.3	1528.2	1534.2	1548.9	1560.8	1566.7	1575.5	1608.1	1649.4	1705.6	1749.9
45°	1442.5	1439.6	1445.5	1457.3	1469.1	1480.9	1495.7	1531.2	1581.4	1643.5	1693.8
47.5°	1339.1	1342.0	1347.9	1368.6	1383.4	1398.2	1415.9	1457.3	1516.4	1578.5	1634.7
50°	1250.4	1253.3	1268.1	1279.9	1294.7	1312.5	1333.1	1386.4	1451.4	1513.5	1581.4
52.5°	1161.7	1164.7	1176.5	1185.3	1209.0	1229.7	1256.3	1315.4	1383.4	1451.4	1519.4
55°	1064.2	1070.1	1078.9	1099.6	1129.2	1152.8	1182.4	1247.4	1315.4	1389.3	1457.3
57.5°	972.5	975.5	990.3	1010.9	1046.4	1076.0	1111.4	1179.4	1253.3	1324.3	1392.3
60°	886.8	892.7	901.6	928.2	975.5	1005.0	1040.5	1111.4	1188.3	1259.2	1330.2
62.5°	798.1	804.0	815.8	845.4	901.6	934.1	972.5	1046.4	1123.3	1194.2	1265.2
65°	697.6	703.5	721.3	759.7	827.7	863.1	901.6	978.4	1052.3	1126.2	1197.2
67.5°	611.9	614.8	638.5	679.9	750.8	795.2	836.5	910.4	984.3	1058.2	1129.2
70°	529.1	535.0	552.8	608.9	685.8	721.3	765.6	845.4	919.3	993.2	1061.2
72.5°	446.4	452.3	478.9	540.9	620.8	659.2	694.7	780.4	854.3	925.2	993.2
75°	363.6	372.5	407.9	478.9	555.7	594.2	632.6	709.4	789.2	857.2	922.3
77.5°	289.7	298.6	342.9	416.8	493.6	532.1	570.5	644.4	718.3	792.2	860.2
80°	218.7	230.6	283.8	357.7	434.5	473.0	508.4	585.3	656.2	724.2	795.2
82.5°	156.7	171.4	233.5	304.5	381.3	416.8	452.3	526.2	597.1	662.1	724.2
85°	97.5	124.2	186.2	254.2	328.1	363.6	399.1	473.0	540.9	606.0	665.1
87.5°	47.3	82.8	141.9	206.9	277.9	313.3	348.8	419.7	484.8	549.8	608.9
90°	3.0	47.3	100.5	162.6	233.5	266.0	301.5	369.5	434.5	496.6	552.8
92.5°	0.0	29.6	79.8	138.9	204.0	239.4	271.9	339.9	402.0	464.1	517.3
95°	0.0	14.8	62.1	118.2	180.3	209.9	242.4	307.4	369.5	428.6	481.8
97.5°	0.0	3.0	44.3	94.6	153.7	186.2	215.8	277.9	339.9	396.1	446.4
100°	0.0	0.0	29.6	76.9	130.1	159.6	189.2	248.3	307.4	360.6	410.9
102.5°	0.0	0.0	14.8	59.1	109.4	136.0	162.6	221.7	277.9	331.1	378.4
105°	0.0	0.0	3.0	41.4	88.7	112.3	138.9	192.1	248.3	298.6	345.8
107.5°	0.0	0.0	0.0	23.6	68.0	91.6	115.3	165.5	218.7	266.0	310.4
110°	0.0	0.0	0.0	11.8	50.3	70.9	94.6	141.9	189.2	236.5	280.8



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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	32.5	53.2	73.9	118.2	162.6	206.9	248.3
115°	0.0	0.0	0.0	0.0	17.7	35.5	53.2	94.6	136.0	180.3	218.7
117.5°	0.0	0.0	0.0	0.0	5.9	20.7	35.5	73.9	112.3	150.8	189.2
120°	0.0	0.0	0.0	0.0	0.0	8.9	20.7	53.2	88.7	124.2	159.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	32.5	65.0	100.5	133.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	44.3	76.9	106.4
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	26.6	53.2	79.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	32.5	56.2
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	17.7	35.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	17.7
137.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9
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°	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2	2474.2
2.5°	2486.0	2474.2	2474.2	2471.2	2468.2	2465.3	2459.4	2456.4	2450.5	2453.5
5°	2480.1	2468.2	2468.2	2462.3	2459.4	2459.4	2456.4	2456.4	2453.5	2456.4
7.5°	2471.2	2456.4	2456.4	2450.5	2447.5	2444.6	2444.6	2444.6	2444.6	2447.5
10°	2447.5	2438.7	2438.7	2435.7	2432.8	2426.9	2423.9	2426.9	2423.9	2426.9
12.5°	2415.0	2406.2	2412.1	2412.1	2412.1	2406.2	2403.2	2406.2	2403.2	2406.2
15°	2373.6	2370.7	2379.6	2382.5	2385.5	2382.5	2379.6	2379.6	2379.6	2379.6
17.5°	2332.3	2329.3	2341.1	2347.0	2347.0	2347.0	2347.0	2344.1	2344.1	2347.0
20°	2296.8	2285.0	2290.9	2302.7	2305.7	2305.7	2308.6	2311.6	2311.6	2311.6
22.5°	2246.5	2240.6	2243.6	2252.5	2258.4	2261.3	2270.2	2270.2	2273.1	2276.1
25°	2187.4	2196.3	2199.2	2208.1	2211.1	2217.0	2228.8	2234.7	2234.7	2234.7
27.5°	2125.3	2143.1	2154.9	2160.8	2166.7	2172.6	2187.4	2199.2	2199.2	2199.2
30°	2066.2	2084.0	2107.6	2119.4	2125.3	2131.3	2151.9	2166.7	2169.7	2169.7
32.5°	2004.2	2027.8	2063.3	2081.0	2084.0	2092.8	2119.4	2137.2	2140.1	2140.1
35°	1950.9	1980.5	2018.9	2042.6	2048.5	2057.4	2086.9	2107.6	2110.6	2110.6
37.5°	1903.6	1933.2	1974.6	2007.1	2013.0	2024.8	2054.4	2081.0	2084.0	2086.9
40°	1850.4	1885.9	1927.3	1965.7	1977.5	1989.4	2021.9	2048.5	2054.4	2054.4
42.5°	1797.2	1841.6	1883.0	1927.3	1942.1	1953.9	1989.4	2016.0	2021.9	2021.9
45°	1741.1	1797.2	1838.6	1885.9	1903.6	1915.5	1948.0	1977.5	1986.4	1986.4
47.5°	1690.8	1749.9	1791.3	1838.6	1856.4	1874.1	1903.6	1933.2	1942.1	1945.0
50°	1634.7	1699.7	1741.1	1785.4	1809.1	1826.8	1856.4	1888.9	1897.7	1894.8
52.5°	1578.5	1640.6	1684.9	1732.2	1755.8	1773.6	1800.2	1835.7	1844.5	1844.5
55°	1519.4	1581.4	1628.7	1673.1	1696.7	1720.4	1747.0	1776.5	1788.4	1785.4
57.5°	1460.3	1516.4	1566.7	1614.0	1634.7	1658.3	1684.9	1714.5	1723.3	1729.2
60°	1398.2	1448.4	1504.6	1548.9	1569.6	1593.3	1619.9	1646.5	1661.3	1658.3
62.5°	1330.2	1386.4	1439.6	1480.9	1501.6	1525.3	1551.9	1575.5	1587.4	1593.3
65°	1262.2	1315.4	1365.7	1410.0	1427.7	1451.4	1480.9	1498.7	1513.5	1516.4
67.5°	1191.3	1244.5	1294.7	1342.0	1359.7	1380.4	1407.0	1424.8	1439.6	1442.5
70°	1120.3	1176.5	1226.7	1271.1	1288.8	1306.5	1333.1	1350.9	1365.7	1365.7
72.5°	1052.3	1108.5	1155.8	1200.1	1217.9	1232.6	1259.2	1277.0	1288.8	1291.8
75°	984.3	1037.5	1084.8	1129.2	1144.0	1161.7	1185.3	1203.1	1214.9	1217.9
77.5°	916.4	972.5	1016.9	1058.2	1073.0	1087.8	1114.4	1129.2	1141.0	1141.0
80°	851.3	904.5	948.9	987.3	999.1	1016.9	1040.5	1055.3	1064.2	1070.1
82.5°	789.2	839.5	880.9	916.4	934.1	945.9	969.6	984.3	993.2	999.1
85°	721.3	774.5	815.8	851.3	863.1	880.9	901.6	916.4	925.2	928.2
87.5°	659.2	706.5	747.9	789.2	804.0	815.8	836.5	851.3	860.2	866.1
90°	606.0	650.3	688.7	721.3	736.0	750.8	774.5	789.2	798.1	801.1
92.5°	567.5	611.9	647.4	679.9	694.7	706.5	727.2	741.9	750.8	753.8
95°	532.1	573.5	608.9	641.4	653.3	665.1	685.8	697.6	703.5	709.4
97.5°	493.6	538.0	570.5	600.1	614.8	623.7	644.4	656.2	665.1	668.1
100°	458.2	499.6	532.1	564.6	576.4	585.3	606.0	617.8	623.7	626.7
102.5°	422.7	464.1	496.6	526.2	538.0	546.9	564.6	576.4	585.3	588.2
105°	387.2	425.7	458.2	487.7	499.6	508.4	526.2	538.0	546.9	549.8
107.5°	354.7	390.2	422.7	449.3	461.1	470.0	487.7	499.6	508.4	511.4
110°	322.2	354.7	387.2	413.8	425.7	434.5	452.3	461.1	470.0	473.0





TEST NUMBER: P257103

CATALOG NUMBER: HGL-S-UF-30L835-UNV-12

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	286.7	322.2	351.8	378.4	387.2	399.1	413.8	425.7	431.6	434.5
115°	257.2	289.7	316.3	342.9	351.8	360.6	378.4	387.2	396.1	396.1
117.5°	224.7	254.2	283.8	307.4	316.3	325.2	342.9	351.8	357.7	360.6
120°	195.1	221.7	248.3	271.9	283.8	289.7	307.4	316.3	322.2	325.2
122.5°	165.5	192.1	218.7	239.4	248.3	257.2	271.9	280.8	286.7	289.7
125°	136.0	162.6	186.2	206.9	215.8	224.7	236.5	245.3	251.3	254.2
127.5°	109.4	133.0	156.7	174.4	183.3	192.1	204.0	212.8	218.7	221.7
130°	82.8	103.5	127.1	144.8	153.7	159.6	171.4	180.3	186.2	189.2
132.5°	56.2	76.9	97.5	115.3	124.2	130.1	141.9	147.8	153.7	156.7
135°	35.5	53.2	70.9	85.7	94.6	100.5	112.3	118.2	124.2	124.2
137.5°	17.7	32.5	47.3	59.1	65.0	73.9	82.8	88.7	91.6	94.6
140°	5.9	14.8	26.6	35.5	41.4	47.3	56.2	62.1	65.0	68.0
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)