

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572041

Luminaire Tested: 22ID-70-L830-SWR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-70-L830-SWR
Description: 7000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED SWEEP LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6915.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.2 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

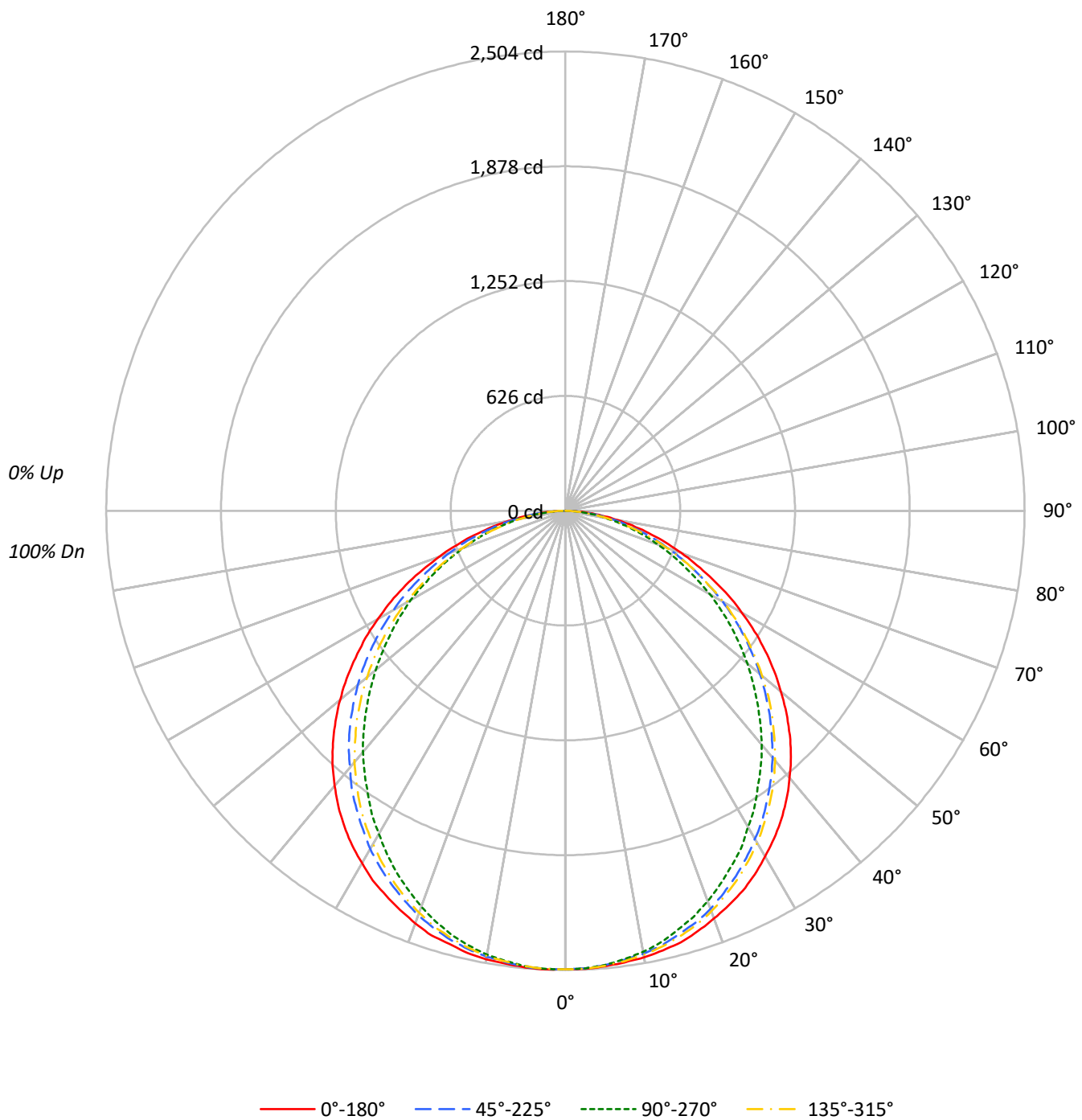
Input Watts (W): 61.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6729	6729	6729	6729
5°	6736	6717	6754	6736
10°	6757	6673	6785	6720
15°	6784	6593	6813	6669
20°	6777	6491	6855	6580
25°	6792	6353	6873	6465
30°	6766	6190	6894	6318
35°	6747	6014	6905	6172
40°	6684	5852	6877	6033
45°	6588	5633	6823	5843
50°	6427	5421	6715	5651
55°	6236	5172	6558	5446
60°	5989	4899	6359	5231
65°	5642	4549	6124	4921
70°	5297	4216	5756	4648
75°	4892	3821	5357	4321
80°	4418	3353	4737	3885
85°	3606	2757	3711	3288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 6823 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	3.4
10°-20°	679.5	9.8
20°-30°	1025.7	14.8
30°-40°	1224.7	17.7
40°-50°	1249.6	18.1
50°-60°	1102.0	15.9
60°-70°	814.4	11.8
70°-80°	459.2	6.6
80°-90°	123.0	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1942.1	28.1
0°-40°	3166.8	45.8
0°-60°	5518.4	79.8
0°-90°	6915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6915.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2500	2500	2500	2500	2500	
5°	2494	2487	2500	2494	2494	237
15°	2435	2366	2445	2394	2435	687
25°	2287	2140	2315	2178	2287	1053
35°	2054	1831	2102	1879	2054	1284
45°	1731	1480	1793	1535	1731	1333
55°	1329	1102	1398	1161	1329	1188
65°	886	714	962	773	886	880
75°	470	368	515	416	470	499
85°	117	89	120	106	117	137
90°	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°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
2.5°	2500.4	2500.4	2500.4	2500.4	2496.9	2493.5	2493.5	2496.9	2496.9	2493.5	2496.9
5°	2493.5	2493.5	2493.5	2490.1	2486.6	2486.6	2486.6	2486.6	2483.2	2486.6	2486.6
7.5°	2483.2	2483.2	2483.2	2479.8	2476.3	2476.3	2476.3	2472.9	2469.5	2472.9	2469.5
10°	2472.9	2469.5	2469.5	2469.5	2462.6	2459.2	2459.2	2459.2	2455.7	2455.7	2452.3
12.5°	2455.7	2452.3	2452.3	2448.9	2445.4	2442.0	2438.6	2435.1	2431.7	2428.2	2428.2
15°	2435.1	2435.1	2428.2	2424.8	2417.9	2414.5	2411.1	2407.6	2400.8	2397.3	2390.5
17.5°	2404.2	2404.2	2397.3	2393.9	2387.0	2380.2	2380.2	2373.3	2366.4	2359.6	2356.1
20°	2366.4	2369.9	2366.4	2359.6	2349.3	2345.8	2342.4	2335.5	2325.2	2318.3	2311.5
22.5°	2328.6	2332.1	2325.2	2314.9	2308.0	2304.6	2297.7	2287.4	2277.1	2266.8	2256.5
25°	2287.4	2284.0	2277.1	2270.3	2260.0	2256.5	2249.6	2239.3	2222.2	2211.9	2198.1
27.5°	2235.9	2235.9	2225.6	2218.7	2201.6	2201.6	2191.3	2177.5	2163.8	2146.6	2136.3
30°	2177.5	2177.5	2170.7	2160.3	2143.2	2139.7	2129.4	2119.1	2098.5	2081.4	2067.6
32.5°	2119.1	2115.7	2108.8	2098.5	2081.4	2074.5	2064.2	2050.4	2033.3	2009.2	1998.9
35°	2053.9	2050.4	2040.1	2026.4	2012.7	2005.8	1995.5	1978.3	1961.1	1937.1	1919.9
37.5°	1981.8	1978.3	1968.0	1954.3	1937.1	1930.2	1919.9	1902.8	1878.7	1861.5	1840.9
40°	1902.8	1899.3	1892.5	1878.7	1861.5	1854.7	1840.9	1823.8	1796.3	1775.7	1758.5
42.5°	1820.3	1816.9	1806.6	1789.4	1775.7	1768.8	1755.1	1737.9	1713.9	1689.8	1665.8
45°	1731.0	1727.6	1717.3	1696.7	1686.4	1676.1	1662.3	1645.2	1624.6	1603.9	1576.5
47.5°	1634.9	1631.4	1624.6	1607.4	1586.8	1583.3	1569.6	1552.4	1528.4	1500.9	1480.3
50°	1535.3	1535.3	1525.0	1511.2	1497.5	1487.2	1473.4	1456.3	1425.4	1408.2	1384.1
52.5°	1435.7	1432.2	1425.4	1408.2	1397.9	1387.6	1370.4	1360.1	1329.2	1315.4	1288.0
55°	1329.2	1325.7	1312.0	1301.7	1294.8	1284.5	1270.8	1250.2	1233.0	1212.4	1188.4
57.5°	1222.7	1219.3	1209.0	1202.1	1188.4	1178.1	1164.3	1150.6	1126.5	1112.8	1088.8
60°	1112.8	1112.8	1105.9	1095.6	1081.9	1071.6	1061.3	1047.5	1026.9	1006.3	989.2
62.5°	1002.9	1002.9	992.6	982.3	975.4	965.1	958.2	941.1	923.9	910.2	882.7
65°	886.1	886.1	872.4	868.9	862.1	855.2	844.9	827.7	817.4	793.4	783.1
67.5°	776.2	779.6	769.3	769.3	759.0	752.2	741.9	728.1	717.8	697.2	686.9
70°	673.2	676.6	669.7	666.3	656.0	649.1	642.3	632.0	618.2	611.4	594.2
72.5°	570.1	573.6	566.7	566.7	556.4	553.0	546.1	539.2	525.5	518.6	501.4
75°	470.5	467.1	467.1	470.5	460.2	456.8	453.4	439.6	432.8	425.9	412.1
77.5°	374.4	374.4	377.8	374.4	367.5	364.1	357.2	346.9	343.5	340.0	326.3
80°	285.1	288.5	288.5	285.1	278.2	274.8	271.3	261.0	257.6	257.6	247.3
82.5°	199.2	199.2	195.8	199.2	192.3	188.9	192.3	182.0	178.6	178.6	171.7
85°	116.8	113.3	113.3	116.8	113.3	113.3	113.3	106.5	106.5	106.5	99.6
87.5°	44.6	44.6	48.1	48.1	44.6	44.6	44.6	44.6	41.2	41.2	37.8
90°	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°	95°
0°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
2.5°	2493.5	2493.5	2493.5	2493.5	2496.9	2493.5	2496.9	2496.9	2500.4	2496.9	2500.4
5°	2486.6	2486.6	2483.2	2483.2	2483.2	2483.2	2483.2	2483.2	2483.2	2486.6	2486.6
7.5°	2469.5	2469.5	2466.0	2466.0	2466.0	2466.0	2462.6	2462.6	2466.0	2466.0	2466.0
10°	2448.9	2445.4	2442.0	2442.0	2442.0	2442.0	2438.6	2442.0	2442.0	2442.0	2442.0
12.5°	2417.9	2417.9	2414.5	2411.1	2411.1	2411.1	2407.6	2411.1	2411.1	2411.1	2411.1
15°	2387.0	2383.6	2380.2	2373.3	2373.3	2369.9	2366.4	2369.9	2366.4	2366.4	2369.9
17.5°	2342.4	2342.4	2335.5	2332.1	2328.6	2325.2	2321.8	2321.8	2321.8	2321.8	2328.6
20°	2297.7	2294.3	2287.4	2273.7	2277.1	2273.7	2266.8	2270.3	2270.3	2266.8	2266.8
22.5°	2249.6	2235.9	2229.0	2215.3	2218.7	2211.9	2208.4	2211.9	2208.4	2205.0	2211.9
25°	2184.4	2177.5	2160.3	2160.3	2153.5	2150.0	2150.0	2146.6	2143.2	2139.7	2146.6
27.5°	2126.0	2112.3	2102.0	2088.2	2081.4	2081.4	2077.9	2074.5	2067.6	2074.5	2074.5
30°	2053.9	2040.1	2023.0	2016.1	2009.2	2009.2	2002.4	1998.9	1992.1	1992.1	2002.4
32.5°	1985.2	1964.6	1947.4	1937.1	1933.7	1930.2	1926.8	1913.1	1916.5	1919.9	1923.4
35°	1902.8	1885.6	1871.8	1861.5	1851.2	1847.8	1844.4	1834.1	1834.1	1830.6	1840.9
37.5°	1823.8	1803.2	1792.8	1775.7	1768.8	1761.9	1758.5	1751.6	1748.2	1751.6	1755.1
40°	1737.9	1720.7	1703.6	1686.4	1679.5	1676.1	1665.8	1665.8	1658.9	1665.8	1665.8
42.5°	1648.6	1631.4	1610.8	1597.1	1590.2	1583.3	1576.5	1573.0	1573.0	1573.0	1576.5
45°	1559.3	1538.7	1518.1	1504.3	1497.5	1494.0	1483.7	1480.3	1473.4	1480.3	1483.7
47.5°	1463.1	1446.0	1425.4	1415.0	1404.7	1401.3	1391.0	1384.1	1380.7	1387.6	1387.6
50°	1367.0	1349.8	1332.6	1318.9	1308.6	1305.1	1294.8	1294.8	1288.0	1294.8	1294.8
52.5°	1270.8	1253.6	1236.4	1219.3	1212.4	1209.0	1198.7	1198.7	1198.7	1198.7	1198.7
55°	1174.6	1150.6	1140.3	1123.1	1116.2	1112.8	1109.4	1099.1	1102.5	1102.5	1102.5
57.5°	1075.0	1057.9	1037.2	1030.4	1020.1	1016.6	1016.6	1002.9	999.5	1006.3	1006.3
60°	975.4	961.7	941.1	930.8	923.9	923.9	913.6	899.9	896.4	910.2	910.2
62.5°	872.4	851.8	841.5	831.2	824.3	820.9	817.4	807.1	810.6	807.1	807.1
65°	776.2	755.6	748.7	738.4	731.6	728.1	724.7	717.8	711.0	714.4	714.4
67.5°	680.0	662.9	652.6	645.7	638.8	638.8	632.0	625.1	628.5	625.1	625.1
70°	587.3	573.6	559.8	556.4	549.5	549.5	546.1	542.7	539.2	535.8	535.8
72.5°	498.0	484.3	474.0	467.1	463.7	463.7	460.2	449.9	453.4	449.9	449.9
75°	405.3	395.0	391.5	384.7	381.2	381.2	377.8	370.9	374.4	367.5	360.6
77.5°	322.9	312.5	309.1	305.7	309.1	305.7	295.4	298.8	295.4	288.5	288.5
80°	247.3	237.0	237.0	230.1	226.7	226.7	223.2	223.2	219.8	216.4	216.4
82.5°	168.3	164.9	161.4	158.0	154.6	161.4	154.6	151.1	151.1	151.1	147.7
85°	96.2	96.2	92.7	92.7	89.3	92.7	89.3	85.9	89.3	89.3	82.4
87.5°	37.8	41.2	34.3	34.3	34.3	34.3	30.9	34.3	34.3	34.3	30.9
90°	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
2.5°	2500.4	2496.9	2496.9	2496.9	2496.9	2493.5	2496.9	2496.9	2500.4	2496.9	2496.9
5°	2486.6	2483.2	2486.6	2483.2	2483.2	2486.6	2486.6	2490.1	2490.1	2493.5	2493.5
7.5°	2466.0	2466.0	2466.0	2466.0	2466.0	2469.5	2469.5	2472.9	2476.3	2476.3	2479.8
10°	2442.0	2442.0	2445.4	2442.0	2445.4	2448.9	2452.3	2455.7	2459.2	2462.6	2462.6
12.5°	2411.1	2411.1	2411.1	2417.9	2417.9	2421.4	2424.8	2431.7	2435.1	2442.0	2442.0
15°	2369.9	2369.9	2376.7	2376.7	2380.2	2387.0	2393.9	2397.3	2404.2	2411.1	2414.5
17.5°	2325.2	2325.2	2332.1	2332.1	2335.5	2345.8	2352.7	2356.1	2369.9	2376.7	2383.6
20°	2273.7	2273.7	2284.0	2280.6	2287.4	2297.7	2304.6	2314.9	2325.2	2335.5	2342.4
22.5°	2211.9	2215.3	2225.6	2225.6	2229.0	2242.8	2253.1	2263.4	2273.7	2287.4	2297.7
25°	2146.6	2150.0	2160.3	2163.8	2167.2	2181.0	2194.7	2201.6	2218.7	2235.9	2242.8
27.5°	2074.5	2081.4	2088.2	2091.7	2098.5	2115.7	2129.4	2143.2	2156.9	2174.1	2187.8
30°	2002.4	2009.2	2016.1	2019.5	2026.4	2043.6	2057.3	2074.5	2091.7	2108.8	2122.6
32.5°	1919.9	1930.2	1937.1	1944.0	1947.4	1968.0	1985.2	2002.4	2019.5	2040.1	2057.3
35°	1840.9	1851.2	1858.1	1861.5	1868.4	1889.0	1902.8	1919.9	1944.0	1964.6	1981.8
37.5°	1755.1	1761.9	1775.7	1775.7	1782.5	1806.6	1823.8	1840.9	1865.0	1885.6	1906.2
40°	1669.2	1672.6	1686.4	1689.8	1696.7	1720.7	1737.9	1761.9	1779.1	1803.2	1823.8
42.5°	1576.5	1586.8	1600.5	1607.4	1614.3	1628.0	1641.7	1669.2	1686.4	1713.9	1734.5
45°	1483.7	1494.0	1500.9	1504.3	1521.5	1535.3	1549.0	1576.5	1597.1	1621.1	1645.2
47.5°	1391.0	1397.9	1408.2	1421.9	1428.8	1442.5	1452.8	1480.3	1500.9	1528.4	1549.0
50°	1294.8	1305.1	1312.0	1315.4	1329.2	1346.4	1360.1	1384.1	1401.3	1428.8	1452.8
52.5°	1198.7	1212.4	1212.4	1226.1	1233.0	1239.9	1260.5	1284.5	1301.7	1325.7	1349.8
55°	1105.9	1112.8	1123.1	1126.5	1136.8	1143.7	1157.5	1181.5	1202.1	1226.1	1250.2
57.5°	1002.9	1009.8	1016.6	1030.4	1037.2	1051.0	1064.7	1081.9	1099.1	1123.1	1140.3
60°	903.3	913.6	920.5	930.8	930.8	947.9	965.1	982.3	996.0	1020.1	1037.2
62.5°	814.0	814.0	814.0	827.7	824.3	838.0	851.8	872.4	886.1	917.0	937.6
65°	717.8	721.3	721.3	731.6	728.1	741.9	752.2	772.8	786.5	803.7	824.3
67.5°	625.1	625.1	628.5	638.8	635.4	645.7	662.9	673.2	683.5	704.1	721.3
70°	528.9	532.4	535.8	546.1	542.7	556.4	566.7	573.6	587.3	601.1	614.8
72.5°	446.5	446.5	456.8	456.8	453.4	463.7	474.0	480.8	487.7	504.9	522.1
75°	367.5	364.1	370.9	370.9	367.5	370.9	377.8	388.1	395.0	408.7	422.5
77.5°	288.5	285.1	291.9	291.9	291.9	288.5	298.8	302.2	305.7	312.5	326.3
80°	212.9	209.5	216.4	216.4	209.5	212.9	219.8	223.2	223.2	230.1	240.4
82.5°	147.7	144.3	147.7	147.7	147.7	147.7	151.1	147.7	151.1	151.1	161.4
85°	89.3	85.9	89.3	85.9	85.9	82.4	89.3	85.9	85.9	89.3	89.3
87.5°	30.9	30.9	34.3	34.3	30.9	34.3	30.9	30.9	30.9	34.3	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572041

CATALOG NUMBER: 22ID-70-L830-SWR

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
2.5°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2503.8	2503.8	2500.4	2503.8	2500.4
5°	2493.5	2493.5	2496.9	2496.9	2496.9	2496.9	2496.9	2500.4	2500.4	2500.4	2496.9
7.5°	2483.2	2483.2	2483.2	2483.2	2486.6	2490.1	2490.1	2490.1	2493.5	2490.1	2490.1
10°	2466.0	2472.9	2472.9	2476.3	2476.3	2479.8	2483.2	2483.2	2483.2	2483.2	2483.2
12.5°	2448.9	2452.3	2455.7	2459.2	2462.6	2462.6	2469.5	2469.5	2469.5	2469.5	2466.0
15°	2421.4	2428.2	2431.7	2435.1	2442.0	2442.0	2448.9	2445.4	2452.3	2448.9	2445.4
17.5°	2390.5	2397.3	2404.2	2404.2	2414.5	2417.9	2424.8	2428.2	2428.2	2424.8	2417.9
20°	2352.7	2363.0	2366.4	2373.3	2380.2	2387.0	2390.5	2393.9	2397.3	2393.9	2390.5
22.5°	2308.0	2321.8	2325.2	2332.1	2342.4	2349.3	2352.7	2356.1	2359.6	2359.6	2352.7
25°	2260.0	2277.1	2277.1	2287.4	2297.7	2308.0	2314.9	2314.9	2321.8	2314.9	2314.9
27.5°	2201.6	2222.2	2232.5	2235.9	2249.6	2260.0	2266.8	2273.7	2273.7	2266.8	2266.8
30°	2143.2	2163.8	2174.1	2177.5	2194.7	2205.0	2211.9	2218.7	2218.7	2218.7	2211.9
32.5°	2077.9	2102.0	2112.3	2115.7	2136.3	2146.6	2156.9	2163.8	2163.8	2160.3	2150.0
35°	2009.2	2026.4	2043.6	2050.4	2067.6	2077.9	2095.1	2102.0	2098.5	2098.5	2088.2
37.5°	1930.2	1957.7	1968.0	1974.9	1995.5	2009.2	2026.4	2033.3	2033.3	2029.8	2023.0
40°	1847.8	1878.7	1889.0	1899.3	1919.9	1937.1	1947.4	1957.7	1957.7	1957.7	1950.8
42.5°	1765.4	1789.4	1803.2	1813.5	1837.5	1847.8	1865.0	1878.7	1878.7	1875.3	1865.0
45°	1672.6	1700.1	1713.9	1724.2	1748.2	1768.8	1779.1	1792.8	1789.4	1789.4	1775.7
47.5°	1579.9	1607.4	1621.1	1631.4	1655.5	1679.5	1686.4	1700.1	1700.1	1700.1	1686.4
50°	1483.7	1511.2	1521.5	1531.8	1559.3	1573.0	1590.2	1603.9	1603.9	1607.4	1593.6
52.5°	1384.1	1404.7	1421.9	1428.8	1456.3	1473.4	1487.2	1504.3	1504.3	1497.5	1497.5
55°	1277.7	1301.7	1318.9	1325.7	1346.4	1373.8	1384.1	1397.9	1397.9	1397.9	1391.0
57.5°	1171.2	1198.7	1212.4	1219.3	1243.3	1263.9	1277.7	1291.4	1294.8	1294.8	1281.1
60°	1061.3	1088.8	1102.5	1109.4	1136.8	1154.0	1167.8	1181.5	1184.9	1188.4	1174.6
62.5°	958.2	982.3	996.0	1002.9	1023.5	1037.2	1054.4	1071.6	1075.0	1075.0	1068.2
65°	844.9	868.9	879.3	886.1	903.3	927.3	947.9	961.7	965.1	961.7	961.7
67.5°	738.4	759.0	772.8	776.2	793.4	817.4	827.7	841.5	844.9	844.9	841.5
70°	632.0	656.0	666.3	673.2	686.9	707.5	717.8	731.6	735.0	738.4	731.6
72.5°	532.4	549.5	559.8	566.7	583.9	601.1	607.9	621.7	628.5	628.5	621.7
75°	432.8	449.9	456.8	463.7	477.4	494.6	501.4	515.2	522.1	518.6	518.6
77.5°	336.6	350.3	357.2	360.6	370.9	391.5	395.0	408.7	408.7	412.1	412.1
80°	247.3	257.6	264.5	267.9	274.8	288.5	295.4	305.7	312.5	309.1	309.1
82.5°	164.9	171.7	178.6	185.5	185.5	199.2	199.2	209.5	209.5	216.4	212.9
85°	92.7	96.2	99.6	103.0	103.0	113.3	113.3	120.2	127.1	120.2	120.2
87.5°	30.9	34.3	34.3	37.8	34.3	41.2	37.8	44.6	48.1	48.1	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572041

CATALOG NUMBER: 22ID-70-L830-SWR

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
2.5°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
5°	2496.9	2496.9	2493.5	2496.9	2496.9	2496.9	2496.9	2493.5	2493.5	2493.5	2493.5
7.5°	2490.1	2486.6	2486.6	2486.6	2483.2	2483.2	2483.2	2483.2	2479.8	2479.8	2479.8
10°	2479.8	2476.3	2476.3	2476.3	2472.9	2472.9	2469.5	2466.0	2466.0	2462.6	2459.2
12.5°	2466.0	2462.6	2459.2	2459.2	2455.7	2452.3	2448.9	2445.4	2442.0	2435.1	2435.1
15°	2442.0	2442.0	2438.6	2435.1	2428.2	2428.2	2421.4	2417.9	2411.1	2404.2	2404.2
17.5°	2417.9	2414.5	2411.1	2404.2	2397.3	2393.9	2387.0	2380.2	2373.3	2366.4	2363.0
20°	2387.0	2376.7	2380.2	2369.9	2363.0	2356.1	2345.8	2338.9	2328.6	2321.8	2314.9
22.5°	2345.8	2342.4	2338.9	2328.6	2318.3	2314.9	2297.7	2287.4	2277.1	2266.8	2260.0
25°	2301.2	2297.7	2294.3	2284.0	2270.3	2263.4	2246.2	2235.9	2218.7	2211.9	2205.0
27.5°	2249.6	2249.6	2242.8	2229.0	2218.7	2201.6	2191.3	2170.7	2156.9	2146.6	2139.7
30°	2194.7	2194.7	2187.8	2170.7	2156.9	2139.7	2129.4	2108.8	2091.7	2081.4	2067.6
32.5°	2139.7	2136.3	2129.4	2112.3	2095.1	2077.9	2057.3	2040.1	2019.5	2009.2	1995.5
35°	2074.5	2071.1	2064.2	2043.6	2029.8	2009.2	1985.2	1964.6	1944.0	1933.7	1913.1
37.5°	2005.8	1998.9	1992.1	1968.0	1950.8	1930.2	1913.1	1885.6	1865.0	1851.2	1840.9
40°	1930.2	1926.8	1916.5	1895.9	1871.8	1851.2	1827.2	1806.6	1786.0	1768.8	1755.1
42.5°	1854.7	1840.9	1834.1	1813.5	1796.3	1765.4	1748.2	1720.7	1700.1	1686.4	1665.8
45°	1768.8	1758.5	1748.2	1727.6	1703.6	1679.5	1662.3	1631.4	1610.8	1593.6	1576.5
47.5°	1672.6	1669.2	1658.9	1634.9	1614.3	1590.2	1569.6	1538.7	1518.1	1504.3	1487.2
50°	1576.5	1573.0	1566.2	1542.1	1514.6	1494.0	1476.9	1446.0	1425.4	1404.7	1394.4
52.5°	1487.2	1473.4	1466.6	1446.0	1418.5	1394.4	1380.7	1349.8	1329.2	1308.6	1294.8
55°	1384.1	1373.8	1367.0	1349.8	1325.7	1294.8	1281.1	1253.6	1236.4	1222.7	1202.1
57.5°	1281.1	1267.4	1260.5	1239.9	1222.7	1198.7	1181.5	1154.0	1136.8	1123.1	1109.4
60°	1164.3	1164.3	1157.5	1136.8	1119.7	1095.6	1081.9	1054.4	1037.2	1026.9	1009.8
62.5°	1068.2	1054.4	1051.0	1026.9	1016.6	992.6	982.3	958.2	947.9	930.8	913.6
65°	947.9	947.9	944.5	930.8	917.0	886.1	872.4	851.8	841.5	827.7	814.0
67.5°	841.5	831.2	831.2	817.4	800.3	783.1	772.8	752.2	745.3	728.1	717.8
70°	735.0	724.7	724.7	707.5	697.2	680.0	673.2	656.0	642.3	635.4	625.1
72.5°	628.5	621.7	618.2	604.5	597.6	580.4	577.0	559.8	546.1	542.7	532.4
75°	522.1	515.2	504.9	508.3	494.6	480.8	477.4	467.1	460.2	449.9	439.6
77.5°	415.6	408.7	408.7	401.8	395.0	384.7	381.2	374.4	364.1	357.2	350.3
80°	316.0	309.1	309.1	305.7	295.4	288.5	288.5	278.2	278.2	271.3	267.9
82.5°	216.4	212.9	209.5	212.9	206.1	199.2	202.6	199.2	195.8	188.9	185.5
85°	127.1	123.6	120.2	127.1	120.2	123.6	120.2	116.8	116.8	113.3	109.9
87.5°	48.1	48.1	44.6	48.1	48.1	51.5	48.1	48.1	48.1	48.1	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572041

CATALOG NUMBER: 22ID-70-L830-SWR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
2.5°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
5°	2493.5	2493.5	2493.5	2493.5	2493.5	2493.5	2493.5	2493.5	2493.5	2490.1	2493.5
7.5°	2479.8	2476.3	2479.8	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3
10°	2459.2	2459.2	2459.2	2459.2	2459.2	2459.2	2459.2	2459.2	2459.2	2455.7	2455.7
12.5°	2435.1	2435.1	2431.7	2431.7	2431.7	2428.2	2428.2	2431.7	2431.7	2428.2	2431.7
15°	2400.8	2404.2	2397.3	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2397.3
17.5°	2363.0	2359.6	2356.1	2356.1	2352.7	2349.3	2349.3	2352.7	2352.7	2356.1	2356.1
20°	2314.9	2314.9	2308.0	2304.6	2301.2	2297.7	2297.7	2301.2	2301.2	2301.2	2308.0
22.5°	2260.0	2256.5	2249.6	2246.2	2246.2	2239.3	2242.8	2246.2	2246.2	2246.2	2249.6
25°	2198.1	2194.7	2191.3	2187.8	2181.0	2177.5	2177.5	2184.4	2184.4	2191.3	2194.7
27.5°	2132.9	2129.4	2122.6	2115.7	2112.3	2108.8	2108.8	2115.7	2115.7	2122.6	2126.0
30°	2064.2	2060.7	2050.4	2047.0	2036.7	2033.3	2036.7	2043.6	2047.0	2050.4	2053.9
32.5°	1992.1	1985.2	1974.9	1971.4	1961.1	1964.6	1957.7	1968.0	1971.4	1974.9	1978.3
35°	1913.1	1906.2	1895.9	1885.6	1882.1	1878.7	1878.7	1885.6	1885.6	1895.9	1899.3
37.5°	1827.2	1823.8	1813.5	1806.6	1799.7	1799.7	1792.8	1803.2	1806.6	1813.5	1813.5
40°	1748.2	1744.8	1727.6	1720.7	1713.9	1717.3	1707.0	1717.3	1720.7	1727.6	1731.0
42.5°	1655.5	1652.0	1638.3	1631.4	1624.6	1628.0	1617.7	1628.0	1624.6	1634.9	1638.3
45°	1566.2	1562.7	1552.4	1538.7	1531.8	1535.3	1535.3	1535.3	1531.8	1542.1	1545.6
47.5°	1476.9	1470.0	1459.7	1446.0	1439.1	1442.5	1442.5	1442.5	1439.1	1452.8	1452.8
50°	1384.1	1377.3	1367.0	1353.2	1349.8	1349.8	1349.8	1349.8	1349.8	1356.7	1360.1
52.5°	1288.0	1284.5	1274.2	1260.5	1253.6	1253.6	1253.6	1246.8	1253.6	1257.1	1260.5
55°	1191.8	1188.4	1171.2	1164.3	1157.5	1160.9	1157.5	1154.0	1154.0	1160.9	1164.3
57.5°	1095.6	1092.2	1081.9	1078.5	1061.3	1064.7	1061.3	1061.3	1064.7	1064.7	1068.2
60°	999.5	996.0	985.7	982.3	968.6	972.0	958.2	965.1	968.6	968.6	968.6
62.5°	896.4	896.4	879.3	872.4	865.5	868.9	858.6	858.6	858.6	865.5	865.5
65°	803.7	800.3	786.5	779.6	772.8	772.8	765.9	765.9	762.5	769.3	769.3
67.5°	707.5	707.5	693.8	686.9	680.0	683.5	673.2	673.2	676.6	676.6	676.6
70°	614.8	614.8	604.5	601.1	590.7	590.7	580.4	583.9	583.9	583.9	583.9
72.5°	525.5	525.5	515.2	511.8	501.4	501.4	491.1	494.6	494.6	491.1	491.1
75°	436.2	439.6	422.5	419.0	412.1	415.6	408.7	405.3	408.7	401.8	401.8
77.5°	346.9	346.9	343.5	340.0	329.7	329.7	326.3	319.4	322.9	316.0	316.0
80°	261.0	264.5	254.2	257.6	247.3	250.7	247.3	240.4	240.4	237.0	233.6
82.5°	182.0	182.0	178.6	182.0	178.6	175.2	171.7	168.3	168.3	161.4	161.4
85°	109.9	113.3	106.5	109.9	109.9	106.5	99.6	99.6	99.6	96.2	96.2
87.5°	44.6	51.5	48.1	48.1	48.1	48.1	44.6	48.1	44.6	41.2	41.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572041

CATALOG NUMBER: 22ID-70-L830-SWR

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
2.5°	2496.9	2500.4	2500.4	2500.4	2500.4	2496.9	2496.9	2496.9	2496.9	2496.9	2500.4
5°	2490.1	2493.5	2493.5	2493.5	2493.5	2493.5	2493.5	2493.5	2493.5	2493.5	2493.5
7.5°	2476.3	2476.3	2479.8	2479.8	2479.8	2479.8	2483.2	2479.8	2483.2	2479.8	2483.2
10°	2455.7	2459.2	2462.6	2462.6	2466.0	2462.6	2466.0	2466.0	2469.5	2469.5	2469.5
12.5°	2431.7	2435.1	2435.1	2442.0	2442.0	2442.0	2445.4	2445.4	2448.9	2452.3	2452.3
15°	2397.3	2400.8	2404.2	2404.2	2411.1	2417.9	2417.9	2421.4	2424.8	2428.2	2428.2
17.5°	2356.1	2359.6	2363.0	2369.9	2376.7	2383.6	2387.0	2387.0	2393.9	2397.3	2397.3
20°	2308.0	2314.9	2321.8	2328.6	2332.1	2342.4	2345.8	2349.3	2356.1	2363.0	2363.0
22.5°	2256.5	2260.0	2270.3	2277.1	2284.0	2294.3	2297.7	2308.0	2314.9	2318.3	2321.8
25°	2194.7	2201.6	2211.9	2218.7	2225.6	2239.3	2249.6	2256.5	2266.8	2273.7	2273.7
27.5°	2126.0	2136.3	2146.6	2153.5	2163.8	2181.0	2191.3	2198.1	2211.9	2218.7	2222.2
30°	2057.3	2064.2	2077.9	2088.2	2098.5	2115.7	2129.4	2139.7	2153.5	2160.3	2163.8
32.5°	1981.8	1992.1	2005.8	2016.1	2029.8	2047.0	2060.7	2071.1	2091.7	2095.1	2098.5
35°	1902.8	1913.1	1923.4	1940.5	1954.3	1971.4	1988.6	2002.4	2012.7	2026.4	2029.8
37.5°	1820.3	1830.6	1844.4	1858.1	1871.8	1892.5	1909.6	1919.9	1937.1	1947.4	1954.3
40°	1734.5	1744.8	1761.9	1779.1	1789.4	1810.0	1827.2	1840.9	1865.0	1871.8	1871.8
42.5°	1641.7	1655.5	1665.8	1686.4	1696.7	1720.7	1737.9	1758.5	1772.2	1782.5	1786.0
45°	1552.4	1562.7	1583.3	1597.1	1607.4	1631.4	1648.6	1665.8	1682.9	1689.8	1696.7
47.5°	1456.3	1470.0	1487.2	1494.0	1511.2	1535.3	1552.4	1569.6	1590.2	1597.1	1600.5
50°	1363.5	1373.8	1384.1	1397.9	1411.6	1435.7	1456.3	1473.4	1490.6	1497.5	1500.9
52.5°	1267.4	1277.7	1288.0	1305.1	1312.0	1336.1	1346.4	1363.5	1387.6	1394.4	1397.9
55°	1167.8	1181.5	1195.2	1205.5	1212.4	1233.0	1246.8	1267.4	1281.1	1288.0	1294.8
57.5°	1068.2	1078.5	1092.2	1105.9	1109.4	1130.0	1147.1	1157.5	1174.6	1181.5	1188.4
60°	972.0	982.3	992.6	996.0	1006.3	1026.9	1044.1	1051.0	1068.2	1075.0	1078.5
62.5°	868.9	872.4	886.1	896.4	896.4	923.9	934.2	947.9	961.7	965.1	972.0
65°	772.8	779.6	779.6	786.5	796.8	814.0	820.9	838.0	848.3	851.8	855.2
67.5°	676.6	683.5	690.4	697.2	697.2	714.4	717.8	731.6	741.9	745.3	748.7
70°	583.9	583.9	594.2	601.1	597.6	611.4	618.2	625.1	638.8	642.3	645.7
72.5°	494.6	491.1	498.0	504.9	511.8	515.2	522.1	525.5	535.8	542.7	546.1
75°	405.3	408.7	408.7	412.1	408.7	412.1	422.5	432.8	439.6	443.1	449.9
77.5°	316.0	319.4	319.4	322.9	326.3	326.3	329.7	343.5	350.3	353.8	350.3
80°	233.6	237.0	237.0	240.4	243.9	247.3	247.3	254.2	264.5	267.9	267.9
82.5°	164.9	164.9	164.9	164.9	168.3	168.3	171.7	178.6	185.5	185.5	192.3
85°	99.6	99.6	96.2	99.6	96.2	99.6	103.0	109.9	113.3	113.3	116.8
87.5°	44.6	41.2	44.6	44.6	41.2	41.2	41.2	44.6	44.6	48.1	48.1
90°	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):

	345°	350°	355°	360°
0°	2500.4	2500.4	2500.4	2500.4
2.5°	2500.4	2500.4	2500.4	2500.4
5°	2493.5	2493.5	2493.5	2493.5
7.5°	2483.2	2483.2	2483.2	2483.2
10°	2469.5	2472.9	2472.9	2472.9
12.5°	2452.3	2452.3	2455.7	2455.7
15°	2431.7	2431.7	2431.7	2435.1
17.5°	2400.8	2404.2	2404.2	2404.2
20°	2366.4	2369.9	2369.9	2366.4
22.5°	2321.8	2325.2	2328.6	2328.6
25°	2277.1	2284.0	2287.4	2287.4
27.5°	2225.6	2232.5	2235.9	2235.9
30°	2170.7	2177.5	2177.5	2177.5
32.5°	2105.4	2115.7	2119.1	2119.1
35°	2036.7	2050.4	2053.9	2053.9
37.5°	1964.6	1971.4	1981.8	1981.8
40°	1885.6	1892.5	1902.8	1902.8
42.5°	1799.7	1813.5	1813.5	1820.3
45°	1707.0	1720.7	1724.2	1731.0
47.5°	1614.3	1628.0	1631.4	1634.9
50°	1514.6	1525.0	1535.3	1535.3
52.5°	1415.0	1421.9	1428.8	1435.7
55°	1308.6	1318.9	1322.3	1329.2
57.5°	1198.7	1212.4	1215.8	1222.7
60°	1092.2	1102.5	1109.4	1112.8
62.5°	985.7	992.6	996.0	1002.9
65°	868.9	879.3	879.3	886.1
67.5°	762.5	769.3	772.8	776.2
70°	649.1	662.9	666.3	673.2
72.5°	549.5	563.3	563.3	570.1
75°	460.2	463.7	463.7	470.5
77.5°	364.1	367.5	370.9	374.4
80°	274.8	278.2	278.2	285.1
82.5°	195.8	195.8	195.8	199.2
85°	120.2	116.8	113.3	116.8
87.5°	48.1	48.1	51.5	44.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P572041

CATALOG NUMBER: 22ID-70-L830-SWR

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.54	20.16	18.90	20.48	20.79	17.42	19.05	17.78	19.36	19.68
	3H	20.29	21.76	20.66	22.08	22.45	19.04	20.51	19.41	20.83	21.19
	4H	20.95	22.33	21.34	22.68	23.05	19.63	21.02	20.03	21.36	21.74
	6H	21.44	22.72	21.85	23.09	23.48	20.06	21.35	20.47	21.71	22.10
	8H	21.60	22.82	22.02	23.21	23.61	20.20	21.42	20.62	21.81	22.21
	12H	21.70	22.87	22.12	23.25	23.68	20.28	21.45	20.71	21.83	22.26
4H	2H	19.02	20.41	19.42	20.75	21.13	18.12	19.50	18.52	19.85	20.23
	3H	21.00	22.16	21.41	22.56	22.96	19.94	21.10	20.35	21.50	21.90
	4H	21.79	22.84	22.22	23.25	23.69	20.65	21.70	21.08	22.11	22.55
	6H	22.42	23.34	22.88	23.78	24.24	21.20	22.11	21.65	22.55	23.01
	8H	22.64	23.49	23.10	23.94	24.40	21.37	22.22	21.83	22.67	23.13
	12H	22.78	23.55	23.26	24.03	24.50	21.48	22.25	21.96	22.73	23.20
8H	4H	22.03	22.88	22.49	23.33	23.79	21.00	21.86	21.46	22.30	22.76
	6H	22.77	23.48	23.26	23.97	24.45	21.65	22.36	22.14	22.85	23.33
	8H	23.06	23.70	23.57	24.20	24.69	21.89	22.53	22.39	23.03	23.52
	12H	23.28	23.84	23.79	24.34	24.90	22.06	22.63	22.57	23.12	23.68
12H	4H	22.05	22.82	22.53	23.29	23.76	21.04	21.81	21.52	22.29	22.76
	6H	22.80	23.45	23.31	23.95	24.44	21.72	22.36	22.22	22.86	23.35
	8H	23.14	23.71	23.65	24.20	24.76	22.00	22.57	22.51	23.06	23.62