

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: P934839

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934839
REPORT IS A COMBINATION OF REPORTS P933715 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

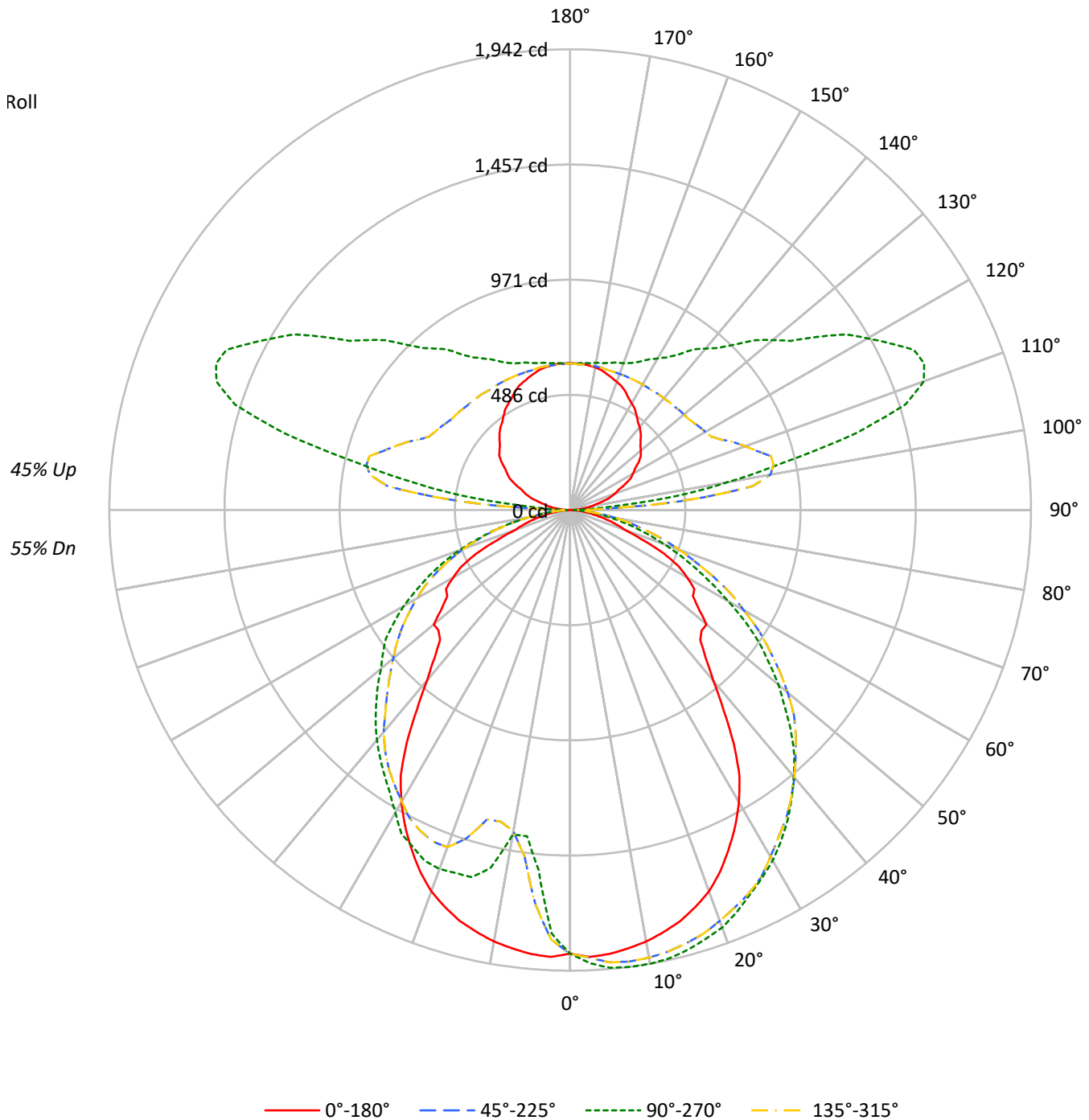
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8859.3 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 76.8
Input Voltage (V): NR
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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11566	11566	11566	11566
5°	11648	11676	11648	9181
10°	11566	11501	11566	8223
15°	11436	11252	11436	9396
20°	11193	10957	11193	9415
25°	10699	10526	10699	9216
30°	10062	10169	10062	8777
35°	8966	9717	8966	8296
40°	7466	9184	7466	7932
45°	6667	8562	6667	7514
50°	7077	7818	7077	7094
55°	6653	7018	6653	6851
60°	6850	5960	6850	6275
65°	6200	4927	6200	5508
70°	4282	3926	4282	4616
75°	3742	2902	3742	3476
80°	2991	1919	2991	2089
85°	1687	1017	1687	865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	1.9
10°-20°	479.2	5.4
20°-30°	740.8	8.4
30°-40°	884.3	10.0
40°-50°	889.5	10.0
50°-60°	774.0	8.7
60°-70°	548.7	6.2
70°-80°	290.3	3.3
80°-90°	74.7	0.8
90°-100°	301.4	3.4
100°-110°	792.6	8.9
110°-120°	821.8	9.3
120°-130°	659.2	7.4
130°-140°	517.2	5.8
140°-150°	397.0	4.5
150°-160°	285.9	3.2
160°-170°	174.9	2.0
170°-180°	59.1	0.7
0°-30°	1388.7	15.7
0°-40°	2273.0	25.7
0°-60°	3936.4	44.4
0°-90°	4850.2	54.7
90°-120°	1915.8	21.6
90°-150°	3489.2	39.4
90°-180°	4009.0	45.3
0°-180°	8859.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1870	1870	1870	1870	1870	
5°	1878	1937	1878	1523	1878	178
15°	1794	1919	1794	1603	1794	505
25°	1580	1790	1580	1567	1580	725
35°	1201	1597	1201	1364	1201	743
45°	775	1316	775	1155	775	621
55°	632	971	632	948	632	580
65°	439	586	439	654	439	419
75°	166	278	166	333	166	175
85°	28	71	28	60	28	38
90°	4	16	4	16	4	5
95°	40	182	40	182	40	44
105°	143	1241	143	1241	143	151
115°	254	1598	254	1598	254	250
125°	353	1273	353	1273	353	313
135°	420	987	420	987	420	325
145°	488	801	488	801	488	306
155°	551	690	551	690	551	253
165°	595	642	595	642	595	168
175°	618	623	618	623	618	59
180°	618	618	618	618	618	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1885.7	1885.7	1896.3	1899.8	1899.8	1894.5	1889.1	1894.5	1910.4	1915.7	1914.0
5°	1878.5	1892.7	1912.2	1915.7	1919.2	1917.4	1914.0	1917.4	1935.1	1938.7	1940.5
7.5°	1864.4	1890.9	1915.7	1921.0	1926.3	1921.0	1919.2	1922.8	1940.5	1944.0	1944.0
10°	1846.7	1883.9	1912.2	1915.7	1921.0	1915.7	1915.7	1922.8	1940.5	1944.0	1945.7
12.5°	1821.9	1873.3	1899.8	1903.3	1910.4	1908.6	1906.8	1914.0	1931.6	1935.1	1935.1
15°	1793.6	1853.8	1878.5	1882.1	1894.5	1890.9	1890.9	1898.0	1917.4	1922.8	1921.0
17.5°	1754.7	1829.0	1857.4	1862.6	1871.5	1869.7	1871.5	1878.5	1896.3	1899.8	1901.5
20°	1710.5	1795.4	1829.0	1834.3	1843.2	1843.2	1843.2	1852.0	1869.7	1876.8	1876.8
22.5°	1650.4	1760.1	1795.4	1799.0	1809.6	1809.6	1813.1	1825.5	1841.4	1843.2	1843.2
25°	1579.6	1721.1	1751.2	1761.8	1772.4	1777.7	1783.0	1790.1	1795.4	1793.6	1795.4
27.5°	1505.3	1671.6	1710.5	1717.6	1731.8	1737.0	1744.1	1745.9	1747.7	1752.9	1749.4
30°	1422.2	1602.6	1661.0	1668.0	1691.1	1694.5	1687.5	1691.1	1699.9	1703.5	1707.0
32.5°	1328.4	1500.0	1609.7	1625.6	1646.8	1636.2	1634.5	1639.7	1653.9	1653.9	1657.4
35°	1201.1	1420.4	1561.9	1576.1	1592.0	1579.6	1586.7	1588.4	1597.3	1602.6	1600.8
37.5°	1061.3	1351.4	1512.4	1523.0	1535.4	1519.5	1530.0	1535.4	1542.4	1539.0	1539.0
40°	937.5	1243.5	1454.0	1461.1	1471.8	1459.3	1470.0	1473.4	1477.0	1473.4	1471.8
42.5°	845.5	1125.0	1392.1	1401.0	1393.9	1402.8	1406.2	1413.4	1408.0	1401.0	1401.0
45°	774.8	1093.2	1324.9	1335.5	1324.9	1339.0	1344.4	1344.4	1328.4	1324.9	1323.1
47.5°	751.8	1029.5	1257.7	1257.7	1252.3	1270.0	1278.9	1266.5	1250.6	1245.3	1245.3
50°	750.0	958.8	1165.7	1158.6	1183.3	1204.6	1195.8	1183.3	1171.0	1151.6	1151.6
52.5°	681.0	872.1	1047.1	1073.7	1112.7	1125.0	1110.9	1098.5	1077.2	1068.4	1061.3
55°	631.5	781.8	939.3	992.3	1033.0	1048.9	1022.4	1010.0	978.2	972.9	969.4
57.5°	620.9	651.0	840.2	907.4	957.0	955.2	939.3	916.3	889.8	884.4	882.7
60°	569.6	470.5	734.1	813.7	864.9	859.7	845.5	824.3	799.5	796.0	792.5
62.5°	516.5	341.4	613.8	704.0	776.6	774.8	762.4	730.5	712.8	704.0	697.0
65°	438.7	286.5	436.9	585.5	689.9	693.4	666.9	643.8	624.4	613.8	612.1
67.5°	334.3	233.5	295.4	488.2	606.7	603.2	569.6	559.0	534.2	528.9	518.3
70°	247.6	155.7	205.2	396.2	525.4	516.5	490.0	477.6	454.6	442.2	435.2
72.5°	205.2	125.6	150.3	307.8	442.2	431.6	408.6	394.4	375.0	364.4	357.3
75°	166.3	132.6	115.0	228.2	359.1	352.0	330.8	316.6	300.7	286.5	288.3
77.5°	122.0	123.8	91.9	168.1	284.7	274.2	261.8	244.1	237.0	222.9	222.9
80°	91.9	97.3	69.0	115.0	205.2	205.2	194.6	182.2	169.8	162.7	162.7
82.5°	61.9	61.9	51.3	72.5	139.8	134.4	127.4	123.8	116.8	113.2	113.2
85°	28.3	35.3	31.9	44.2	76.1	79.6	79.6	76.1	74.3	70.8	72.5
87.5°	8.8	15.9	19.5	24.7	38.9	40.7	42.5	42.5	42.5	44.2	44.2
90°	4.1	7.4	10.8	11.6	18.2	27.0	31.5	28.0	21.1	15.8	15.8
92.5°	16.6	44.8	73.0	80.1	112.6	155.9	177.6	155.7	111.8	78.8	75.7
95°	39.8	91.5	143.1	156.0	277.1	438.5	519.2	463.4	351.5	267.7	258.2
97.5°	68.9	114.4	160.0	171.4	373.3	642.4	777.0	741.7	671.1	618.1	599.9
100°	91.3	132.6	174.0	184.3	408.3	707.0	856.3	858.9	864.1	867.9	846.4
102.5°	110.4	149.0	187.5	197.2	424.4	727.2	878.7	923.7	1013.7	1081.2	1062.8
105°	142.8	175.5	208.2	216.3	436.2	729.5	876.2	977.1	1178.9	1330.3	1320.4
107.5°	176.0	206.5	236.9	244.5	438.5	697.0	826.4	967.2	1248.7	1459.8	1462.2
110°	198.4	225.9	253.3	260.2	435.1	668.3	784.9	942.2	1257.0	1493.0	1503.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.4	246.5	272.8	279.3	435.2	643.1	747.1	908.2	1230.2	1471.8	1487.6
115°	253.6	277.8	301.9	308.0	439.3	614.3	701.9	857.0	1167.3	1400.0	1421.9
117.5°	286.4	308.3	330.3	335.8	447.5	596.3	670.7	810.8	1090.8	1300.8	1325.2
120°	305.5	326.2	346.8	352.0	454.1	590.2	658.3	786.2	1042.0	1234.0	1257.7
122.5°	324.2	345.0	365.9	371.1	463.6	587.1	648.8	763.9	994.3	1167.1	1190.5
125°	352.8	371.8	390.8	395.5	476.5	584.4	638.4	736.2	932.0	1078.7	1100.2
127.5°	376.1	395.3	414.4	419.2	489.3	582.9	629.7	713.6	881.7	1007.8	1026.0
130°	388.5	409.2	429.8	435.0	498.8	583.9	626.4	701.2	850.8	963.0	979.7
132.5°	401.3	422.0	442.7	447.8	506.4	584.4	623.4	690.4	824.3	924.8	939.8
135°	420.4	439.3	458.1	462.8	514.7	583.9	618.4	674.5	786.7	870.8	883.7
137.5°	440.0	458.5	477.2	481.8	527.1	587.4	617.6	665.0	759.8	830.9	841.6
140°	456.1	473.3	490.5	494.8	534.8	588.1	614.7	655.6	737.6	799.0	808.9
142.5°	468.6	484.5	500.4	504.3	541.1	590.1	614.7	650.6	722.6	776.6	785.1
145°	487.7	501.6	515.3	518.8	549.4	590.2	610.6	640.0	698.8	742.9	749.4
147.5°	506.7	520.2	533.7	537.1	561.5	594.2	610.6	633.7	680.0	714.7	720.1
150°	519.2	531.4	543.6	546.6	568.0	596.4	610.6	630.1	669.2	698.6	702.9
152.5°	532.1	541.4	550.6	552.9	572.1	597.7	610.6	627.2	660.6	685.7	689.0
155°	551.2	558.0	564.8	566.5	581.2	600.7	610.6	623.9	650.5	670.4	672.5
157.5°	565.3	572.0	578.6	580.3	590.4	603.9	610.6	620.9	641.5	657.1	658.6
160°	574.8	580.0	585.2	586.5	594.5	605.2	610.6	619.4	637.1	650.4	651.3
162.5°	584.4	588.3	592.2	593.1	598.9	606.7	610.6	618.1	633.0	644.2	645.0
165°	594.8	598.3	601.8	602.7	605.3	608.8	610.6	615.9	626.6	634.7	635.5
167.5°	604.3	606.0	607.6	608.1	610.3	613.2	614.7	618.1	625.2	630.5	630.8
170°	610.6	612.2	613.9	614.3	614.4	614.6	614.7	618.1	625.2	630.5	630.5
172.5°	613.9	614.2	614.6	614.7	614.7	614.7	614.7	617.4	623.0	627.2	626.8
175°	618.4	618.4	618.4	618.4	617.2	615.5	614.7	616.4	619.9	622.6	622.6
177.5°	618.4	618.4	618.4	618.4	617.4	616.2	615.6	617.0	619.7	621.8	621.4
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1917.4	1912.2	1917.4	1914.0	1915.7	1910.4	1894.5	1889.1	1894.5	1899.8	1899.8
5°	1940.5	1936.9	1940.5	1940.5	1938.7	1935.1	1917.4	1914.0	1917.4	1919.2	1915.7
7.5°	1947.5	1942.3	1947.5	1944.0	1944.0	1940.5	1922.8	1919.2	1921.0	1926.3	1921.0
10°	1947.5	1942.3	1947.5	1945.7	1944.0	1940.5	1922.8	1915.7	1915.7	1921.0	1915.7
12.5°	1938.7	1935.1	1938.7	1935.1	1935.1	1931.6	1914.0	1906.8	1908.6	1910.4	1903.3
15°	1924.6	1919.2	1924.6	1921.0	1922.8	1917.4	1898.0	1890.9	1890.9	1894.5	1882.1
17.5°	1903.3	1896.3	1903.3	1901.5	1899.8	1896.3	1878.5	1871.5	1869.7	1871.5	1862.6
20°	1878.5	1873.3	1878.5	1876.8	1876.8	1869.7	1852.0	1843.2	1843.2	1843.2	1834.3
22.5°	1839.6	1834.3	1839.6	1843.2	1843.2	1841.4	1825.5	1813.1	1809.6	1809.6	1799.0
25°	1795.4	1790.1	1795.4	1795.4	1793.6	1795.4	1790.1	1783.0	1777.7	1772.4	1761.8
27.5°	1752.9	1749.4	1752.9	1749.4	1752.9	1747.7	1745.9	1744.1	1737.0	1731.8	1717.6
30°	1710.5	1707.0	1710.5	1707.0	1703.5	1699.9	1691.1	1687.5	1694.5	1691.1	1668.0
32.5°	1657.4	1653.9	1657.4	1657.4	1653.9	1653.9	1639.7	1634.5	1636.2	1646.8	1625.6
35°	1602.6	1597.3	1602.6	1600.8	1602.6	1597.3	1588.4	1586.7	1579.6	1592.0	1576.1
37.5°	1539.0	1533.6	1539.0	1539.0	1539.0	1542.4	1535.4	1530.0	1519.5	1535.4	1523.0
40°	1473.4	1466.4	1473.4	1471.8	1473.4	1477.0	1473.4	1470.0	1459.3	1471.8	1461.1
42.5°	1399.2	1397.4	1399.2	1401.0	1401.0	1408.0	1413.4	1406.2	1402.8	1393.9	1401.0
45°	1319.6	1316.1	1319.6	1323.1	1324.9	1328.4	1344.4	1344.4	1339.0	1324.9	1335.5
47.5°	1234.7	1225.8	1234.7	1245.3	1245.3	1250.6	1266.5	1278.9	1270.0	1252.3	1257.7
50°	1144.4	1146.2	1144.4	1151.6	1151.6	1171.0	1183.3	1195.8	1204.6	1183.3	1158.6
52.5°	1056.1	1054.3	1056.1	1061.3	1068.4	1077.2	1098.5	1110.9	1125.0	1112.7	1073.7
55°	967.6	971.1	967.6	969.4	972.9	978.2	1010.0	1022.4	1048.9	1033.0	992.3
57.5°	879.1	873.8	879.1	882.7	884.4	889.8	916.3	939.3	955.2	957.0	907.4
60°	776.6	769.4	776.6	792.5	796.0	799.5	824.3	845.5	859.7	864.9	813.7
62.5°	686.3	673.9	686.3	697.0	704.0	712.8	730.5	762.4	774.8	776.6	704.0
65°	590.8	585.5	590.8	612.1	613.8	624.4	643.8	666.9	693.4	689.9	585.5
67.5°	504.2	504.2	504.2	518.3	528.9	534.2	559.0	569.6	603.2	606.7	488.2
70°	424.5	422.7	424.5	435.2	442.2	454.6	477.6	490.0	516.5	525.4	396.2
72.5°	348.5	346.7	348.5	357.3	364.4	375.0	394.4	408.6	431.6	442.2	307.8
75°	281.3	277.7	281.3	288.3	286.5	300.7	316.6	330.8	352.0	359.1	228.2
77.5°	215.8	215.8	215.8	222.9	222.9	237.0	244.1	261.8	274.2	284.7	168.1
80°	160.9	159.2	160.9	162.7	162.7	169.8	182.2	194.6	205.2	205.2	115.0
82.5°	113.2	109.7	113.2	113.2	113.2	116.8	123.8	127.4	134.4	139.8	72.5
85°	70.8	70.8	70.8	72.5	70.8	74.3	76.1	79.6	79.6	76.1	44.2
87.5°	46.0	44.2	46.0	44.2	44.2	42.5	42.5	42.5	40.7	38.9	24.7
90°	15.8	15.8	15.8	15.8	15.8	21.1	28.0	31.5	27.0	18.2	11.6
92.5°	63.1	50.6	63.1	75.7	78.8	111.8	155.7	177.6	155.9	112.6	80.1
95°	220.2	182.2	220.2	258.2	267.7	351.5	463.4	519.2	438.5	277.1	156.0
97.5°	527.6	455.3	527.6	599.9	618.1	671.1	741.7	777.0	642.4	373.3	171.4
100°	760.2	674.0	760.2	846.4	867.9	864.1	858.9	856.3	707.0	408.3	184.3
102.5°	989.0	915.2	989.0	1062.8	1081.2	1013.7	923.7	878.7	727.2	424.4	197.2
105°	1280.6	1241.0	1280.6	1320.4	1330.3	1178.9	977.1	876.2	729.5	436.2	216.3
107.5°	1471.8	1481.3	1471.8	1462.2	1459.8	1248.7	967.2	826.4	697.0	438.5	244.5
110°	1544.6	1585.9	1544.6	1503.4	1493.0	1257.0	942.2	784.9	668.3	435.1	260.2



TEST NUMBER: P934839

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1551.1	1614.6	1551.1	1487.6	1471.8	1230.2	908.2	747.1	643.1	435.2	279.3
115°	1510.0	1598.0	1510.0	1421.9	1400.0	1167.3	857.0	701.9	614.3	439.3	308.0
117.5°	1422.7	1520.3	1422.7	1325.2	1300.8	1090.8	810.8	670.7	596.3	447.5	335.8
120°	1352.5	1447.3	1352.5	1257.7	1234.0	1042.0	786.2	658.3	590.2	454.1	352.0
122.5°	1284.0	1377.6	1284.0	1190.5	1167.1	994.3	763.9	648.8	587.1	463.6	371.1
125°	1186.5	1272.6	1186.5	1100.2	1078.7	932.0	736.2	638.4	584.4	476.5	395.5
127.5°	1098.6	1171.3	1098.6	1026.0	1007.8	881.7	713.6	629.7	582.9	489.3	419.2
130°	1046.9	1114.0	1046.9	979.7	963.0	850.8	701.2	626.4	583.9	498.8	435.0
132.5°	999.9	1060.1	999.9	939.8	924.8	824.3	690.4	623.4	584.4	506.4	447.8
135°	935.6	987.4	935.6	883.7	870.8	786.7	674.5	618.4	583.9	514.7	462.8
137.5°	884.0	926.5	884.0	841.6	830.9	759.8	665.0	617.6	587.4	527.1	481.8
140°	848.6	888.2	848.6	808.9	799.0	737.6	655.6	614.7	588.1	534.8	494.8
142.5°	819.2	853.3	819.2	785.1	776.6	722.6	650.6	614.7	590.1	541.1	504.3
145°	775.2	801.0	775.2	749.4	742.9	698.8	640.0	610.6	590.2	549.4	518.8
147.5°	741.4	762.8	741.4	720.1	714.7	680.0	633.7	610.6	594.2	561.5	537.1
150°	720.3	737.6	720.3	702.9	698.6	669.2	630.1	610.6	596.4	568.0	546.6
152.5°	702.0	715.2	702.0	689.0	685.7	660.6	627.2	610.6	597.7	572.1	552.9
155°	681.2	689.8	681.2	672.5	670.4	650.5	623.9	610.6	600.7	581.2	566.5
157.5°	664.6	670.7	664.6	658.6	657.1	641.5	620.9	610.6	603.9	590.4	580.3
160°	654.7	658.3	654.7	651.3	650.4	637.1	619.4	610.6	605.2	594.5	586.5
162.5°	648.3	651.6	648.3	645.0	644.2	633.0	618.1	610.6	606.7	598.9	593.1
165°	639.0	642.5	639.0	635.5	634.7	626.6	615.9	610.6	608.8	605.3	602.7
167.5°	632.3	633.8	632.3	630.8	630.5	625.2	618.1	614.7	613.2	610.3	608.1
170°	630.5	630.5	630.5	630.5	630.5	625.2	618.1	614.7	614.6	614.4	614.3
172.5°	625.5	624.2	625.5	626.8	627.2	623.0	617.4	614.7	614.7	614.7	614.7
175°	622.6	622.6	622.6	622.6	622.6	619.9	616.4	614.7	615.5	617.2	618.4
177.5°	619.9	618.4	619.9	621.4	621.8	619.7	617.0	615.6	616.2	617.4	618.4
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



TEST NUMBER: P934839

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1896.3	1885.7	1885.7	1867.9	1860.8	1855.6	1846.7	1820.1	1813.1	1806.0	1816.7
5°	1912.2	1892.7	1878.5	1846.7	1820.1	1809.6	1776.0	1712.3	1669.8	1638.0	1620.3
7.5°	1915.7	1890.9	1864.4	1814.9	1751.2	1722.8	1620.3	1503.5	1471.8	1443.4	1425.7
10°	1912.2	1883.9	1846.7	1772.4	1622.1	1572.5	1470.0	1393.9	1374.5	1369.1	1374.5
12.5°	1899.8	1873.3	1821.9	1698.1	1487.6	1454.0	1393.9	1349.6	1346.2	1355.0	1402.8
15°	1878.5	1853.8	1793.6	1599.0	1413.4	1388.6	1346.2	1330.2	1349.6	1411.6	1554.9
17.5°	1857.4	1829.0	1754.7	1501.7	1356.7	1339.0	1308.9	1340.8	1450.5	1533.6	1581.4
20°	1829.0	1795.4	1710.5	1431.0	1316.1	1300.1	1286.0	1429.3	1512.4	1542.4	1569.0
22.5°	1795.4	1760.1	1650.4	1381.5	1273.6	1261.2	1270.0	1478.8	1512.4	1533.6	1556.6
25°	1751.2	1721.1	1579.6	1342.6	1240.0	1225.8	1259.5	1473.4	1492.9	1498.3	1544.2
27.5°	1710.5	1671.6	1505.3	1307.2	1199.3	1194.0	1268.3	1450.5	1464.6	1470.0	1519.5
30°	1661.0	1602.6	1422.2	1270.0	1156.8	1155.1	1270.0	1422.2	1418.6	1432.8	1482.3
32.5°	1609.7	1500.0	1328.4	1224.0	1116.1	1114.4	1257.7	1379.7	1376.2	1395.6	1432.8
35°	1561.9	1420.4	1201.1	1171.0	1064.9	1066.6	1227.6	1330.2	1332.0	1349.6	1372.7
37.5°	1512.4	1351.4	1061.3	1112.7	1015.4	1015.4	1186.9	1284.2	1280.6	1286.0	1317.8
40°	1454.0	1243.5	937.5	1036.6	969.4	964.0	1137.4	1234.7	1222.3	1220.6	1264.8
42.5°	1392.1	1125.0	845.5	935.7	916.3	909.2	1077.2	1174.5	1151.6	1156.8	1213.4
45°	1324.9	1093.2	774.8	790.7	861.5	856.1	1011.8	1105.5	1089.6	1103.8	1162.2
47.5°	1257.7	1029.5	751.8	656.3	803.1	801.3	939.3	1038.3	1029.5	1043.7	1105.5
50°	1165.7	958.8	750.0	562.5	737.7	744.7	852.6	972.9	972.9	985.3	1050.7
52.5°	1047.1	872.1	681.0	509.4	661.5	682.8	776.6	916.3	919.8	932.2	990.5
55°	939.3	781.8	631.5	468.7	571.4	617.3	702.2	857.9	864.9	877.4	930.5
57.5°	840.2	651.0	620.9	421.0	488.2	532.4	636.8	801.3	804.9	815.5	866.7
60°	734.1	470.5	569.6	369.7	415.7	449.3	576.6	734.1	746.5	753.5	797.7
62.5°	613.8	341.4	516.5	334.3	380.3	387.4	527.1	670.4	686.3	691.6	718.2
65°	436.9	286.5	438.7	304.2	343.1	344.9	474.1	604.9	619.1	628.0	647.4
67.5°	295.4	233.5	334.3	275.9	314.8	316.6	422.7	528.9	548.3	555.4	567.8
70°	205.2	155.7	247.6	245.9	283.0	286.5	367.9	459.9	477.6	482.9	490.0
72.5°	150.3	125.6	205.2	221.1	249.4	253.0	311.3	382.0	399.8	405.1	408.6
75°	115.0	132.6	166.3	192.8	212.3	214.1	254.8	311.3	323.7	327.2	329.0
77.5°	91.9	123.8	122.0	155.7	173.3	169.8	199.9	240.6	251.2	251.2	251.2
80°	69.0	97.3	91.9	111.4	127.4	123.8	143.3	171.6	175.1	178.6	176.9
82.5°	51.3	61.9	61.9	70.8	84.9	81.4	95.5	111.4	111.4	111.4	115.0
85°	31.9	35.3	28.3	37.1	47.8	46.0	53.1	60.2	61.9	61.9	58.4
87.5°	19.5	15.9	8.8	14.2	21.2	21.2	24.7	26.5	24.7	24.7	24.7
90°	10.8	7.4	4.1	7.4	10.8	11.6	18.2	27.0	31.5	28.0	21.1
92.5°	73.0	44.8	16.6	44.8	73.0	80.1	112.6	155.9	177.6	155.7	111.8
95°	143.1	91.5	39.8	91.5	143.1	156.0	277.1	438.5	519.2	463.4	351.5
97.5°	160.0	114.4	68.9	114.4	160.0	171.4	373.3	642.4	777.0	741.7	671.1
100°	174.0	132.6	91.3	132.6	174.0	184.3	408.3	707.0	856.3	858.9	864.1
102.5°	187.5	149.0	110.4	149.0	187.5	197.2	424.4	727.2	878.7	923.7	1013.7
105°	208.2	175.5	142.8	175.5	208.2	216.3	436.2	729.5	876.2	977.1	1178.9
107.5°	236.9	206.5	176.0	206.5	236.9	244.5	438.5	697.0	826.4	967.2	1248.7
110°	253.3	225.9	198.4	225.9	253.3	260.2	435.1	668.3	784.9	942.2	1257.0



TEST NUMBER: P934839

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	272.8	246.5	220.4	246.5	272.8	279.3	435.2	643.1	747.1	908.2	1230.2
115°	301.9	277.8	253.6	277.8	301.9	308.0	439.3	614.3	701.9	857.0	1167.3
117.5°	330.3	308.3	286.4	308.3	330.3	335.8	447.5	596.3	670.7	810.8	1090.8
120°	346.8	326.2	305.5	326.2	346.8	352.0	454.1	590.2	658.3	786.2	1042.0
122.5°	365.9	345.0	324.2	345.0	365.9	371.1	463.6	587.1	648.8	763.9	994.3
125°	390.8	371.8	352.8	371.8	390.8	395.5	476.5	584.4	638.4	736.2	932.0
127.5°	414.4	395.3	376.1	395.3	414.4	419.2	489.3	582.9	629.7	713.6	881.7
130°	429.8	409.2	388.5	409.2	429.8	435.0	498.8	583.9	626.4	701.2	850.8
132.5°	442.7	422.0	401.3	422.0	442.7	447.8	506.4	584.4	623.4	690.4	824.3
135°	458.1	439.3	420.4	439.3	458.1	462.8	514.7	583.9	618.4	674.5	786.7
137.5°	477.2	458.5	440.0	458.5	477.2	481.8	527.1	587.4	617.6	665.0	759.8
140°	490.5	473.3	456.1	473.3	490.5	494.8	534.8	588.1	614.7	655.6	737.6
142.5°	500.4	484.5	468.6	484.5	500.4	504.3	541.1	590.1	614.7	650.6	722.6
145°	515.3	501.6	487.7	501.6	515.3	518.8	549.4	590.2	610.6	640.0	698.8
147.5°	533.7	520.2	506.7	520.2	533.7	537.1	561.5	594.2	610.6	633.7	680.0
150°	543.6	531.4	519.2	531.4	543.6	546.6	568.0	596.4	610.6	630.1	669.2
152.5°	550.6	541.4	532.1	541.4	550.6	552.9	572.1	597.7	610.6	627.2	660.6
155°	564.8	558.0	551.2	558.0	564.8	566.5	581.2	600.7	610.6	623.9	650.5
157.5°	578.6	572.0	565.3	572.0	578.6	580.3	590.4	603.9	610.6	620.9	641.5
160°	585.2	580.0	574.8	580.0	585.2	586.5	594.5	605.2	610.6	619.4	637.1
162.5°	592.2	588.3	584.4	588.3	592.2	593.1	598.9	606.7	610.6	618.1	633.0
165°	601.8	598.3	594.8	598.3	601.8	602.7	605.3	608.8	610.6	615.9	626.6
167.5°	607.6	606.0	604.3	606.0	607.6	608.1	610.3	613.2	614.7	618.1	625.2
170°	613.9	612.2	610.6	612.2	613.9	614.3	614.4	614.6	614.7	618.1	625.2
172.5°	614.6	614.2	613.9	614.2	614.6	614.7	614.7	614.7	614.7	617.4	623.0
175°	618.4	618.4	618.4	618.4	618.4	618.4	617.2	615.5	614.7	616.4	619.9
177.5°	618.4	618.4	618.4	618.4	618.4	618.4	617.4	616.2	615.6	617.0	619.7
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



TEST NUMBER: P934839

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1804.3	1799.0	1806.0	1786.6	1806.0	1799.0	1804.3	1816.7	1806.0	1813.1	1820.1
5°	1583.2	1574.3	1546.0	1523.0	1546.0	1574.3	1583.2	1620.3	1638.0	1669.8	1712.3
7.5°	1415.1	1408.0	1401.0	1386.8	1401.0	1408.0	1415.1	1425.7	1443.4	1471.8	1503.5
10°	1377.9	1379.7	1390.3	1388.6	1390.3	1379.7	1377.9	1374.5	1369.1	1374.5	1393.9
12.5°	1473.4	1489.4	1547.8	1544.2	1547.8	1489.4	1473.4	1402.8	1355.0	1346.2	1349.6
15°	1583.2	1588.4	1600.8	1602.6	1600.8	1588.4	1583.2	1554.9	1411.6	1349.6	1330.2
17.5°	1593.8	1595.6	1604.4	1604.4	1604.4	1595.6	1593.8	1581.4	1533.6	1450.5	1340.8
20°	1584.9	1588.4	1606.2	1609.7	1606.2	1588.4	1584.9	1569.0	1542.4	1512.4	1429.3
22.5°	1581.4	1588.4	1602.6	1600.8	1602.6	1588.4	1581.4	1556.6	1533.6	1512.4	1478.8
25°	1563.7	1563.7	1565.5	1567.3	1565.5	1563.7	1563.7	1544.2	1498.3	1492.9	1473.4
27.5°	1526.6	1530.0	1540.7	1539.0	1540.7	1530.0	1526.6	1519.5	1470.0	1464.6	1450.5
30°	1492.9	1489.4	1480.6	1473.4	1480.6	1489.4	1492.9	1482.3	1432.8	1418.6	1422.2
32.5°	1436.3	1427.5	1418.6	1413.4	1418.6	1427.5	1436.3	1432.8	1395.6	1376.2	1379.7
35°	1369.1	1370.9	1369.1	1363.8	1369.1	1370.9	1369.1	1372.7	1349.6	1332.0	1330.2
37.5°	1321.3	1324.9	1323.1	1316.1	1323.1	1324.9	1321.3	1317.8	1286.0	1280.6	1284.2
40°	1271.8	1273.6	1271.8	1266.5	1271.8	1273.6	1271.8	1264.8	1220.6	1222.3	1234.7
42.5°	1224.0	1222.3	1217.0	1213.4	1217.0	1222.3	1224.0	1213.4	1156.8	1151.6	1174.5
45°	1169.2	1171.0	1160.4	1155.1	1160.4	1171.0	1169.2	1162.2	1103.8	1089.6	1105.5
47.5°	1114.4	1114.4	1105.5	1100.2	1105.5	1114.4	1114.4	1105.5	1043.7	1029.5	1038.3
50°	1056.1	1054.3	1041.9	1040.1	1041.9	1054.3	1056.1	1050.7	985.3	972.9	972.9
52.5°	988.8	988.8	990.5	994.1	990.5	988.8	988.8	990.5	932.2	919.8	916.3
55°	930.5	932.2	944.6	948.1	944.6	932.2	930.5	930.5	877.4	864.9	857.9
57.5°	870.3	870.3	879.1	879.1	879.1	870.3	870.3	866.7	815.5	804.9	801.3
60°	801.3	804.9	811.9	810.1	811.9	804.9	801.3	797.7	753.5	746.5	734.1
62.5°	728.7	732.3	734.1	730.5	734.1	732.3	728.7	718.2	691.6	686.3	670.4
65°	652.7	656.3	658.0	654.5	658.0	656.3	652.7	647.4	628.0	619.1	604.9
67.5°	574.8	573.2	571.4	578.4	571.4	573.2	574.8	567.8	555.4	548.3	528.9
70°	495.3	495.3	493.5	497.0	493.5	495.3	495.3	490.0	482.9	477.6	459.9
72.5°	410.3	408.6	415.7	410.3	415.7	408.6	410.3	408.6	405.1	399.8	382.0
75°	327.2	330.8	327.2	332.6	327.2	330.8	327.2	329.0	327.2	323.7	311.3
77.5°	249.4	253.0	249.4	249.4	249.4	253.0	249.4	251.2	251.2	251.2	240.6
80°	176.9	175.1	175.1	173.3	175.1	175.1	176.9	176.9	178.6	175.1	171.6
82.5°	113.2	111.4	111.4	115.0	111.4	111.4	113.2	115.0	111.4	111.4	111.4
85°	61.9	63.6	60.2	60.2	60.2	63.6	61.9	58.4	61.9	61.9	60.2
87.5°	23.0	21.2	21.2	21.2	21.2	21.2	23.0	24.7	24.7	24.7	26.5
90°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.1	28.0	31.5	27.0
92.5°	78.8	75.7	63.1	50.6	63.1	75.7	78.8	111.8	155.7	177.6	155.9
95°	267.7	258.2	220.2	182.2	220.2	258.2	267.7	351.5	463.4	519.2	438.5
97.5°	618.1	599.9	527.6	455.3	527.6	599.9	618.1	671.1	741.7	777.0	642.4
100°	867.9	846.4	760.2	674.0	760.2	846.4	867.9	864.1	858.9	856.3	707.0
102.5°	1081.2	1062.8	989.0	915.2	989.0	1062.8	1081.2	1013.7	923.7	878.7	727.2
105°	1330.3	1320.4	1280.6	1241.0	1280.6	1320.4	1330.3	1178.9	977.1	876.2	729.5
107.5°	1459.8	1462.2	1471.8	1481.3	1471.8	1462.2	1459.8	1248.7	967.2	826.4	697.0
110°	1493.0	1503.4	1544.6	1585.9	1544.6	1503.4	1493.0	1257.0	942.2	784.9	668.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1471.8	1487.6	1551.1	1614.6	1551.1	1487.6	1471.8	1230.2	908.2	747.1	643.1
115°	1400.0	1421.9	1510.0	1598.0	1510.0	1421.9	1400.0	1167.3	857.0	701.9	614.3
117.5°	1300.8	1325.2	1422.7	1520.3	1422.7	1325.2	1300.8	1090.8	810.8	670.7	596.3
120°	1234.0	1257.7	1352.5	1447.3	1352.5	1257.7	1234.0	1042.0	786.2	658.3	590.2
122.5°	1167.1	1190.5	1284.0	1377.6	1284.0	1190.5	1167.1	994.3	763.9	648.8	587.1
125°	1078.7	1100.2	1186.5	1272.6	1186.5	1100.2	1078.7	932.0	736.2	638.4	584.4
127.5°	1007.8	1026.0	1098.6	1171.3	1098.6	1026.0	1007.8	881.7	713.6	629.7	582.9
130°	963.0	979.7	1046.9	1114.0	1046.9	979.7	963.0	850.8	701.2	626.4	583.9
132.5°	924.8	939.8	999.9	1060.1	999.9	939.8	924.8	824.3	690.4	623.4	584.4
135°	870.8	883.7	935.6	987.4	935.6	883.7	870.8	786.7	674.5	618.4	583.9
137.5°	830.9	841.6	884.0	926.5	884.0	841.6	830.9	759.8	665.0	617.6	587.4
140°	799.0	808.9	848.6	888.2	848.6	808.9	799.0	737.6	655.6	614.7	588.1
142.5°	776.6	785.1	819.2	853.3	819.2	785.1	776.6	722.6	650.6	614.7	590.1
145°	742.9	749.4	775.2	801.0	775.2	749.4	742.9	698.8	640.0	610.6	590.2
147.5°	714.7	720.1	741.4	762.8	741.4	720.1	714.7	680.0	633.7	610.6	594.2
150°	698.6	702.9	720.3	737.6	720.3	702.9	698.6	669.2	630.1	610.6	596.4
152.5°	685.7	689.0	702.0	715.2	702.0	689.0	685.7	660.6	627.2	610.6	597.7
155°	670.4	672.5	681.2	689.8	681.2	672.5	670.4	650.5	623.9	610.6	600.7
157.5°	657.1	658.6	664.6	670.7	664.6	658.6	657.1	641.5	620.9	610.6	603.9
160°	650.4	651.3	654.7	658.3	654.7	651.3	650.4	637.1	619.4	610.6	605.2
162.5°	644.2	645.0	648.3	651.6	648.3	645.0	644.2	633.0	618.1	610.6	606.7
165°	634.7	635.5	639.0	642.5	639.0	635.5	634.7	626.6	615.9	610.6	608.8
167.5°	630.5	630.8	632.3	633.8	632.3	630.8	630.5	625.2	618.1	614.7	613.2
170°	630.5	630.5	630.5	630.5	630.5	630.5	630.5	625.2	618.1	614.7	614.6
172.5°	627.2	626.8	625.5	624.2	625.5	626.8	627.2	623.0	617.4	614.7	614.7
175°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	619.9	616.4	614.7	615.5
177.5°	621.8	621.4	619.9	618.4	619.9	621.4	621.8	619.7	617.0	615.6	616.2
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1846.7	1855.6	1860.8	1867.9	1885.7
5°	1776.0	1809.6	1820.1	1846.7	1878.5
7.5°	1620.3	1722.8	1751.2	1814.9	1864.4
10°	1470.0	1572.5	1622.1	1772.4	1846.7
12.5°	1393.9	1454.0	1487.6	1698.1	1821.9
15°	1346.2	1388.6	1413.4	1599.0	1793.6
17.5°	1308.9	1339.0	1356.7	1501.7	1754.7
20°	1286.0	1300.1	1316.1	1431.0	1710.5
22.5°	1270.0	1261.2	1273.6	1381.5	1650.4
25°	1259.5	1225.8	1240.0	1342.6	1579.6
27.5°	1268.3	1194.0	1199.3	1307.2	1505.3
30°	1270.0	1155.1	1156.8	1270.0	1422.2
32.5°	1257.7	1114.4	1116.1	1224.0	1328.4
35°	1227.6	1066.6	1064.9	1171.0	1201.1
37.5°	1186.9	1015.4	1015.4	1112.7	1061.3
40°	1137.4	964.0	969.4	1036.6	937.5
42.5°	1077.2	909.2	916.3	935.7	845.5
45°	1011.8	856.1	861.5	790.7	774.8
47.5°	939.3	801.3	803.1	656.3	751.8
50°	852.6	744.7	737.7	562.5	750.0
52.5°	776.6	682.8	661.5	509.4	681.0
55°	702.2	617.3	571.4	468.7	631.5
57.5°	636.8	532.4	488.2	421.0	620.9
60°	576.6	449.3	415.7	369.7	569.6
62.5°	527.1	387.4	380.3	334.3	516.5
65°	474.1	344.9	343.1	304.2	438.7
67.5°	422.7	316.6	314.8	275.9	334.3
70°	367.9	286.5	283.0	245.9	247.6
72.5°	311.3	253.0	249.4	221.1	205.2
75°	254.8	214.1	212.3	192.8	166.3
77.5°	199.9	169.8	173.3	155.7	122.0
80°	143.3	123.8	127.4	111.4	91.9
82.5°	95.5	81.4	84.9	70.8	61.9
85°	53.1	46.0	47.8	37.1	28.3
87.5°	24.7	21.2	21.2	14.2	8.8
90°	18.2	11.6	10.8	7.4	4.1
92.5°	112.6	80.1	73.0	44.8	16.6
95°	277.1	156.0	143.1	91.5	39.8
97.5°	373.3	171.4	160.0	114.4	68.9
100°	408.3	184.3	174.0	132.6	91.3
102.5°	424.4	197.2	187.5	149.0	110.4
105°	436.2	216.3	208.2	175.5	142.8
107.5°	438.5	244.5	236.9	206.5	176.0
110°	435.1	260.2	253.3	225.9	198.4



TEST NUMBER: P934839

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	435.2	279.3	272.8	246.5	220.4
115°	439.3	308.0	301.9	277.8	253.6
117.5°	447.5	335.8	330.3	308.3	286.4
120°	454.1	352.0	346.8	326.2	305.5
122.5°	463.6	371.1	365.9	345.0	324.2
125°	476.5	395.5	390.8	371.8	352.8
127.5°	489.3	419.2	414.4	395.3	376.1
130°	498.8	435.0	429.8	409.2	388.5
132.5°	506.4	447.8	442.7	422.0	401.3
135°	514.7	462.8	458.1	439.3	420.4
137.5°	527.1	481.8	477.2	458.5	440.0
140°	534.8	494.8	490.5	473.3	456.1
142.5°	541.1	504.3	500.4	484.5	468.6
145°	549.4	518.8	515.3	501.6	487.7
147.5°	561.5	537.1	533.7	520.2	506.7
150°	568.0	546.6	543.6	531.4	519.2
152.5°	572.1	552.9	550.6	541.4	532.1
155°	581.2	566.5	564.8	558.0	551.2
157.5°	590.4	580.3	578.6	572.0	565.3
160°	594.5	586.5	585.2	580.0	574.8
162.5°	598.9	593.1	592.2	588.3	584.4
165°	605.3	602.7	601.8	598.3	594.8
167.5°	610.3	608.1	607.6	606.0	604.3
170°	614.4	614.3	613.9	612.2	610.6
172.5°	614.7	614.7	614.6	614.2	613.9
175°	617.2	618.4	618.4	618.4	618.4
177.5°	617.4	618.4	618.4	618.4	618.4
180°	618.4	618.4	618.4	618.4	618.4



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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	13.74	14.64	14.65	15.58	16.78	16.56	17.47	17.48	18.40	19.60
	3H	14.22	15.03	15.14	15.97	17.20	17.91	18.72	18.83	19.66	20.89
	4H	14.41	15.18	15.35	16.13	17.36	18.35	19.12	19.29	20.07	21.30
	6H	14.53	15.24	15.48	16.19	17.44	18.64	19.35	19.59	20.30	21.55
	8H	14.53	15.21	15.49	16.18	17.42	18.71	19.39	19.67	20.36	21.60
	12H	14.51	15.15	15.47	16.11	17.38	18.75	19.39	19.72	20.36	21.63
4H	2H	14.77	15.54	15.72	16.49	17.72	16.98	17.74	17.92	18.69	19.93
	3H	15.80	16.44	16.76	17.42	18.67	18.48	19.12	19.44	20.10	21.35
	4H	16.08	16.67	17.05	17.64	18.91	19.01	19.60	19.98	20.57	21.84
	6H	16.21	16.71	17.19	17.71	18.98	19.38	19.88	20.36	20.88	22.15
	8H	16.22	16.69	17.20	17.68	18.96	19.49	19.96	20.47	20.94	22.23
	12H	16.19	16.61	17.19	17.62	18.91	19.54	19.97	20.54	20.97	22.27
8H	4H	16.54	17.01	17.52	18.00	19.28	19.14	19.61	20.12	20.60	21.89
	6H	16.80	17.19	17.81	18.22	19.51	19.58	19.97	20.58	21.00	22.28
	8H	16.84	17.19	17.86	18.21	19.51	19.73	20.07	20.74	21.09	22.39
	12H	16.83	17.13	17.85	18.14	19.49	19.83	20.13	20.85	21.14	22.49
12H	4H	16.55	16.97	17.55	17.98	19.27	19.11	19.53	20.11	20.54	21.83
	6H	16.86	17.21	17.88	18.22	19.53	19.57	19.92	20.59	20.94	22.24
	8H	16.93	17.23	17.95	18.25	19.59	19.74	20.04	20.76	21.05	22.40