

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: P934366

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934366
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

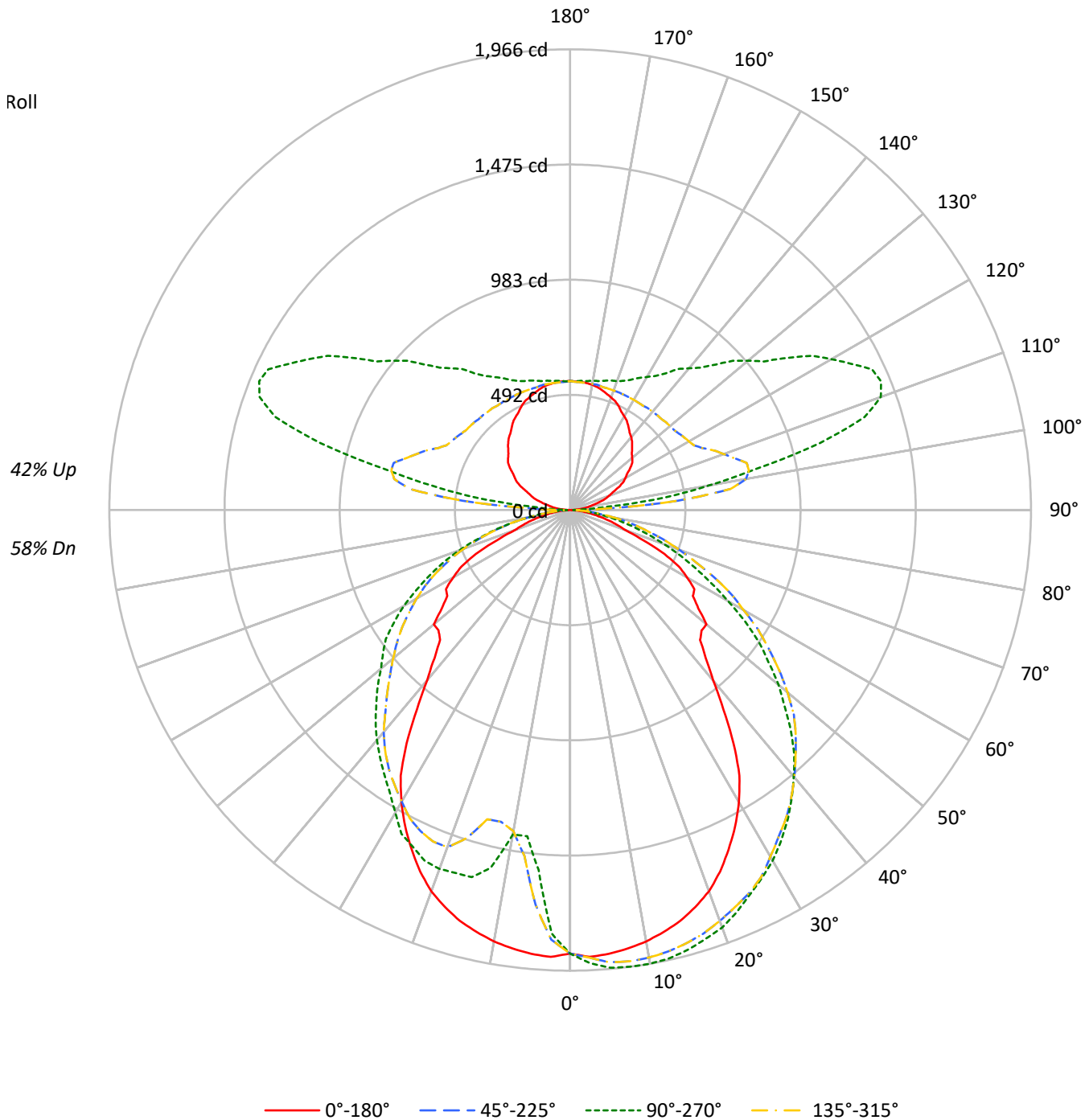
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8474.1 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 72.8
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8781	8781	8781	8781
5°	8847	8864	8847	6969
10°	8787	8731	8787	6242
15°	8692	8542	8692	7133
20°	8510	8318	8510	7148
25°	8138	7991	8138	6996
30°	7657	7720	7657	6664
35°	6826	7376	6826	6298
40°	5688	6972	5688	6022
45°	5083	6499	5083	5705
50°	5399	5935	5399	5386
55°	5081	5328	5081	5202
60°	5237	4525	5237	4764
65°	4748	3741	4748	4181
70°	3288	2981	3288	3505
75°	2882	2203	2882	2638
80°	2323	1457	2323	1587
85°	1332	771	1332	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7789 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	2.0
10°-20°	485.1	5.7
20°-30°	749.8	8.8
30°-40°	895.1	10.6
40°-50°	900.4	10.6
50°-60°	783.5	9.2
60°-70°	555.5	6.6
70°-80°	293.9	3.5
80°-90°	75.3	0.9
90°-100°	268.0	3.2
100°-110°	704.7	8.3
110°-120°	730.7	8.6
120°-130°	586.1	6.9
130°-140°	459.9	5.4
140°-150°	353.0	4.2
150°-160°	254.2	3.0
160°-170°	155.5	1.8
170°-180°	52.6	0.6
0°-30°	1405.7	16.6
0°-40°	2300.8	27.2
0°-60°	3984.6	47.0
0°-90°	4909.3	57.9
90°-120°	1703.5	20.1
90°-150°	3102.5	36.6
90°-180°	3565.0	42.1
0°-180°	8474.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1893	1893	1893	1893	1893	
5°	1902	1961	1902	1542	1902	180
15°	1816	1943	1816	1622	1816	511
25°	1599	1812	1599	1586	1599	734
35°	1216	1617	1216	1380	1216	752
45°	784	1332	784	1169	784	628
55°	639	983	639	960	639	587
65°	444	593	444	662	444	424
75°	168	281	168	337	168	177
85°	29	72	29	61	29	39
90°	4	14	4	14	4	4
95°	36	162	36	162	36	39
105°	127	1104	127	1104	127	135
115°	226	1421	226	1421	226	223
125°	314	1132	314	1132	314	279
135°	374	878	374	878	374	289
145°	434	712	434	712	434	272
155°	490	613	490	613	490	225
165°	529	571	529	571	529	149
175°	550	554	550	554	550	52
180°	550	550	550	550	550	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1908.7	1908.7	1919.5	1923.0	1923.0	1917.7	1912.3	1917.7	1933.8	1939.2	1937.4
5°	1901.6	1915.9	1935.6	1939.2	1942.7	1940.9	1937.4	1940.9	1958.9	1962.4	1964.2
7.5°	1887.2	1914.1	1939.2	1944.5	1949.9	1944.5	1942.7	1946.3	1964.2	1967.8	1967.8
10°	1869.3	1906.9	1935.6	1939.2	1944.5	1939.2	1939.2	1946.3	1964.2	1967.8	1969.6
12.5°	1844.3	1896.2	1923.0	1926.6	1933.8	1932.0	1930.2	1937.4	1955.3	1958.9	1958.9
15°	1815.6	1876.5	1901.6	1905.1	1917.7	1914.1	1914.1	1921.3	1940.9	1946.3	1944.5
17.5°	1776.2	1851.4	1880.1	1885.4	1894.4	1892.6	1894.4	1901.6	1919.5	1923.0	1924.8
20°	1731.4	1817.4	1851.4	1856.8	1865.7	1865.7	1865.7	1874.7	1892.6	1899.8	1899.8
22.5°	1670.6	1781.6	1817.4	1821.0	1831.7	1831.7	1835.3	1847.8	1864.0	1865.7	1865.7
25°	1598.9	1742.2	1772.6	1783.4	1794.1	1799.5	1804.9	1812.0	1817.4	1815.6	1817.4
27.5°	1523.7	1692.1	1731.4	1738.6	1752.9	1758.3	1765.5	1767.3	1769.0	1774.4	1770.8
30°	1439.6	1622.2	1681.3	1688.5	1711.7	1715.3	1708.2	1711.7	1720.7	1724.3	1727.9
32.5°	1344.7	1518.4	1629.4	1645.5	1667.0	1656.2	1654.4	1659.8	1674.1	1674.1	1677.7
35°	1215.7	1437.8	1581.0	1595.4	1611.5	1598.9	1606.1	1607.9	1616.8	1622.2	1620.4
37.5°	1074.3	1367.9	1530.9	1541.6	1554.2	1538.1	1548.8	1554.2	1561.3	1557.8	1557.8
40°	949.0	1258.7	1471.8	1479.0	1489.7	1477.2	1487.9	1491.5	1495.1	1491.5	1489.7
42.5°	855.9	1138.7	1409.1	1418.1	1410.9	1419.9	1423.5	1430.6	1425.2	1418.1	1418.1
45°	784.3	1106.5	1341.1	1351.8	1341.1	1355.4	1360.8	1360.8	1344.7	1341.1	1339.3
47.5°	761.0	1042.1	1273.0	1273.0	1267.7	1285.6	1294.5	1282.0	1265.9	1260.5	1260.5
50°	759.2	970.5	1179.9	1172.8	1197.8	1219.3	1210.4	1197.8	1185.3	1165.6	1165.6
52.5°	689.4	882.8	1060.0	1086.8	1126.2	1138.7	1124.4	1111.9	1090.4	1081.4	1074.3
55°	639.3	791.5	950.8	1004.5	1045.7	1061.8	1035.0	1022.4	990.2	984.8	981.3
57.5°	628.5	658.9	850.5	918.6	968.7	966.9	950.8	927.5	900.7	895.3	893.5
60°	576.6	476.3	743.1	823.7	875.6	870.2	855.9	834.4	809.4	805.8	802.2
62.5°	522.9	345.6	621.3	712.7	786.1	784.3	771.8	739.5	721.6	712.7	705.5
65°	444.1	290.1	442.3	592.7	698.3	701.9	675.1	651.8	632.1	621.3	619.6
67.5°	338.4	236.4	299.0	494.2	614.2	610.6	576.6	565.8	540.8	535.4	524.7
70°	250.7	157.6	207.7	401.1	531.8	522.9	496.0	483.5	460.2	447.7	440.5
72.5°	207.7	127.1	152.2	311.6	447.7	436.9	413.6	399.3	379.6	368.9	361.7
75°	168.3	134.3	116.4	231.0	363.5	356.3	334.8	320.5	304.4	290.1	291.9
77.5°	123.6	125.3	93.1	170.1	288.3	277.5	265.0	247.1	239.9	225.6	225.6
80°	93.1	98.5	69.8	116.4	207.7	207.7	197.0	184.4	171.9	164.7	164.7
82.5°	62.7	62.7	51.9	73.4	141.5	136.1	128.9	125.3	118.2	114.6	114.6
85°	28.6	35.8	32.2	44.8	77.0	80.6	80.6	77.0	75.2	71.6	73.4
87.5°	9.0	16.1	19.7	25.1	39.4	41.2	43.0	43.0	43.0	44.8	44.8
90°	3.7	6.6	9.6	10.3	16.2	24.1	28.0	24.9	18.7	14.1	14.1
92.5°	14.8	39.8	65.0	71.3	100.2	138.7	157.9	138.4	99.4	70.1	67.3
95°	35.5	81.4	127.3	138.8	246.4	389.9	461.7	412.0	312.6	238.1	229.6
97.5°	61.2	101.7	142.3	152.4	331.9	571.2	690.9	659.5	596.6	549.5	533.4
100°	81.2	117.9	154.6	163.8	363.0	628.6	761.4	763.7	768.3	771.7	752.5
102.5°	98.2	132.5	166.7	175.3	377.3	646.7	781.3	821.4	901.4	961.4	945.0
105°	127.0	156.0	185.1	192.3	387.9	648.7	779.1	868.8	1048.3	1182.9	1174.0
107.5°	156.5	183.5	210.6	217.4	389.8	619.8	734.8	859.9	1110.3	1298.0	1300.2
110°	176.4	200.8	225.4	231.4	387.0	594.2	697.9	837.8	1117.6	1327.5	1336.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	196.0	219.3	242.5	248.4	387.0	571.9	664.3	807.5	1093.9	1308.7	1322.8
115°	225.5	247.0	268.5	273.9	390.6	546.3	624.1	762.1	1037.9	1244.8	1264.4
117.5°	254.6	274.1	293.7	298.6	397.9	530.2	596.4	720.9	969.9	1156.7	1178.3
120°	271.6	290.0	308.4	313.0	403.8	524.8	585.4	699.1	926.6	1097.2	1118.2
122.5°	288.2	306.7	325.3	329.9	412.2	522.0	576.8	679.3	884.2	1037.8	1058.6
125°	313.7	330.5	347.5	351.7	423.7	519.6	567.6	654.7	828.7	959.2	978.4
127.5°	334.4	351.4	368.4	372.7	435.1	518.3	559.8	634.6	784.0	896.1	912.2
130°	345.4	363.8	382.2	386.8	443.4	519.1	556.9	623.4	756.4	856.2	871.1
132.5°	356.9	375.2	393.7	398.2	450.3	519.6	554.4	613.9	733.0	822.3	835.6
135°	373.9	390.6	407.3	411.5	457.6	519.1	549.9	599.8	699.5	774.3	785.8
137.5°	391.3	407.8	424.4	428.5	468.7	522.3	549.2	591.4	675.7	738.9	748.3
140°	405.6	420.9	436.1	440.0	475.5	522.9	546.6	583.0	655.8	710.4	719.2
142.5°	416.7	430.7	444.9	448.4	481.1	524.7	546.6	578.6	642.6	690.6	698.2
145°	433.7	446.0	458.3	461.4	488.6	524.8	542.9	569.1	621.4	660.7	666.4
147.5°	450.6	462.6	474.6	477.6	499.3	528.4	542.9	563.5	604.6	635.5	640.2
150°	461.7	472.5	483.4	486.1	505.0	530.3	542.9	560.3	595.1	621.2	625.0
152.5°	473.2	481.4	489.6	491.6	508.7	531.5	542.9	557.8	587.4	609.7	612.7
155°	490.1	496.2	502.3	503.8	516.9	534.2	542.9	554.7	578.3	596.0	598.0
157.5°	502.6	508.5	514.4	516.0	524.9	536.9	542.9	552.0	570.4	584.2	585.5
160°	511.1	515.8	520.4	521.5	528.7	538.2	542.9	550.8	566.5	578.3	579.1
162.5°	519.6	523.1	526.5	527.4	532.6	539.5	542.9	549.5	562.9	572.8	573.5
165°	528.9	532.0	535.0	535.8	538.2	541.3	542.9	547.7	557.2	564.3	565.1
167.5°	537.4	538.8	540.3	540.7	542.6	545.2	546.6	549.7	556.0	560.6	561.0
170°	542.9	544.3	545.9	546.2	546.3	546.5	546.6	549.7	556.0	560.6	560.6
172.5°	545.9	546.2	546.5	546.6	546.6	546.6	546.6	549.1	554.0	557.7	557.4
175°	549.9	549.9	549.9	549.9	548.8	547.3	546.6	548.1	551.2	553.6	553.6
177.5°	549.9	549.9	549.9	549.9	549.0	547.8	547.3	548.6	551.0	552.9	552.5
180°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1940.9	1935.6	1940.9	1937.4	1939.2	1933.8	1917.7	1912.3	1917.7	1923.0	1923.0
5°	1964.2	1960.6	1964.2	1964.2	1962.4	1958.9	1940.9	1937.4	1940.9	1942.7	1939.2
7.5°	1971.4	1966.0	1971.4	1967.8	1967.8	1964.2	1946.3	1942.7	1944.5	1949.9	1944.5
10°	1971.4	1966.0	1971.4	1969.6	1967.8	1964.2	1946.3	1939.2	1939.2	1944.5	1939.2
12.5°	1962.4	1958.9	1962.4	1958.9	1958.9	1955.3	1937.4	1930.2	1932.0	1933.8	1926.6
15°	1948.1	1942.7	1948.1	1944.5	1946.3	1940.9	1921.3	1914.1	1914.1	1917.7	1905.1
17.5°	1926.6	1919.5	1926.6	1924.8	1923.0	1919.5	1901.6	1894.4	1892.6	1894.4	1885.4
20°	1901.6	1896.2	1901.6	1899.8	1899.8	1892.6	1874.7	1865.7	1865.7	1865.7	1856.8
22.5°	1862.2	1856.8	1862.2	1865.7	1865.7	1864.0	1847.8	1835.3	1831.7	1831.7	1821.0
25°	1817.4	1812.0	1817.4	1817.4	1815.6	1817.4	1812.0	1804.9	1799.5	1794.1	1783.4
27.5°	1774.4	1770.8	1774.4	1770.8	1774.4	1769.0	1767.3	1765.5	1758.3	1752.9	1738.6
30°	1731.4	1727.9	1731.4	1727.9	1724.3	1720.7	1711.7	1708.2	1715.3	1711.7	1688.5
32.5°	1677.7	1674.1	1677.7	1677.7	1674.1	1674.1	1659.8	1654.4	1656.2	1667.0	1645.5
35°	1622.2	1616.8	1622.2	1620.4	1622.2	1616.8	1607.9	1606.1	1598.9	1611.5	1595.4
37.5°	1557.8	1552.4	1557.8	1557.8	1557.8	1561.3	1554.2	1548.8	1538.1	1554.2	1541.6
40°	1491.5	1484.3	1491.5	1489.7	1491.5	1495.1	1491.5	1487.9	1477.2	1489.7	1479.0
42.5°	1416.3	1414.5	1416.3	1418.1	1418.1	1425.2	1430.6	1423.5	1419.9	1410.9	1418.1
45°	1335.7	1332.1	1335.7	1339.3	1341.1	1344.7	1360.8	1360.8	1355.4	1341.1	1351.8
47.5°	1249.8	1240.8	1249.8	1260.5	1260.5	1265.9	1282.0	1294.5	1285.6	1267.7	1273.0
50°	1158.4	1160.2	1158.4	1165.6	1165.6	1185.3	1197.8	1210.4	1219.3	1197.8	1172.8
52.5°	1068.9	1067.2	1068.9	1074.3	1081.4	1090.4	1111.9	1124.4	1138.7	1126.2	1086.8
55°	979.5	983.1	979.5	981.3	984.8	990.2	1022.4	1035.0	1061.8	1045.7	1004.5
57.5°	889.9	884.6	889.9	893.5	895.3	900.7	927.5	950.8	966.9	968.7	918.6
60°	786.1	778.9	786.1	802.2	805.8	809.4	834.4	855.9	870.2	875.6	823.7
62.5°	694.8	682.2	694.8	705.5	712.7	721.6	739.5	771.8	784.3	786.1	712.7
65°	598.1	592.7	598.1	619.6	621.3	632.1	651.8	675.1	701.9	698.3	592.7
67.5°	510.3	510.3	510.3	524.7	535.4	540.8	565.8	576.6	610.6	614.2	494.2
70°	429.7	428.0	429.7	440.5	447.7	460.2	483.5	496.0	522.9	531.8	401.1
72.5°	352.8	351.0	352.8	361.7	368.9	379.6	399.3	413.6	436.9	447.7	311.6
75°	284.7	281.1	284.7	291.9	290.1	304.4	320.5	334.8	356.3	363.5	231.0
77.5°	218.5	218.5	218.5	225.6	225.6	239.9	247.1	265.0	277.5	288.3	170.1
80°	162.9	161.2	162.9	164.7	164.7	171.9	184.4	197.0	207.7	207.7	116.4
82.5°	114.6	111.0	114.6	114.6	114.6	118.2	125.3	128.9	136.1	141.5	73.4
85°	71.6	71.6	71.6	73.4	71.6	75.2	77.0	80.6	80.6	77.0	44.8
87.5°	46.6	44.8	46.6	44.8	44.8	43.0	43.0	43.0	41.2	39.4	25.1
90°	14.1	14.1	14.1	14.1	14.1	18.7	24.9	28.0	24.1	16.2	10.3
92.5°	56.1	45.0	56.1	67.3	70.1	99.4	138.4	157.9	138.7	100.2	71.3
95°	195.8	162.1	195.8	229.6	238.1	312.6	412.0	461.7	389.9	246.4	138.8
97.5°	469.1	404.9	469.1	533.4	549.5	596.6	659.5	690.9	571.2	331.9	152.4
100°	676.0	599.3	676.0	752.5	771.7	768.3	763.7	761.4	628.6	363.0	163.8
102.5°	879.4	813.7	879.4	945.0	961.4	901.4	821.4	781.3	646.7	377.3	175.3
105°	1138.7	1103.5	1138.7	1174.0	1182.9	1048.3	868.8	779.1	648.7	387.9	192.3
107.5°	1308.7	1317.2	1308.7	1300.2	1298.0	1110.3	859.9	734.8	619.8	389.8	217.4
110°	1373.4	1410.2	1373.4	1336.7	1327.5	1117.6	837.8	697.9	594.2	387.0	231.4



TEST NUMBER: P934366

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1379.2	1435.6	1379.2	1322.8	1308.7	1093.9	807.5	664.3	571.9	387.0	248.4
115°	1342.6	1420.9	1342.6	1264.4	1244.8	1037.9	762.1	624.1	546.3	390.6	273.9
117.5°	1265.2	1351.9	1265.2	1178.3	1156.7	969.9	720.9	596.4	530.2	397.9	298.6
120°	1202.6	1286.9	1202.6	1118.2	1097.2	926.6	699.1	585.4	524.8	403.8	313.0
122.5°	1141.8	1225.0	1141.8	1058.6	1037.8	884.2	679.3	576.8	522.0	412.2	329.9
125°	1054.9	1131.6	1054.9	978.4	959.2	828.7	654.7	567.6	519.6	423.7	351.7
127.5°	976.9	1041.5	976.9	912.2	896.1	784.0	634.6	559.8	518.3	435.1	372.7
130°	930.9	990.6	930.9	871.1	856.2	756.4	623.4	556.9	519.1	443.4	386.8
132.5°	889.1	942.6	889.1	835.6	822.3	733.0	613.9	554.4	519.6	450.3	398.2
135°	831.9	878.0	831.9	785.8	774.3	699.5	599.8	549.9	519.1	457.6	411.5
137.5°	786.1	823.8	786.1	748.3	738.9	675.7	591.4	549.2	522.3	468.7	428.5
140°	754.5	789.8	754.5	719.2	710.4	655.8	583.0	546.6	522.9	475.5	440.0
142.5°	728.4	758.8	728.4	698.2	690.6	642.6	578.6	546.6	524.7	481.1	448.4
145°	689.4	712.3	689.4	666.4	660.7	621.4	569.1	542.9	524.8	488.6	461.4
147.5°	659.3	678.4	659.3	640.2	635.5	604.6	563.5	542.9	528.4	499.3	477.6
150°	640.4	655.8	640.4	625.0	621.2	595.1	560.3	542.9	530.3	505.0	486.1
152.5°	624.3	635.9	624.3	612.7	609.7	587.4	557.8	542.9	531.5	508.7	491.6
155°	605.7	613.4	605.7	598.0	596.0	578.3	554.7	542.9	534.2	516.9	503.8
157.5°	591.0	596.4	591.0	585.5	584.2	570.4	552.0	542.9	536.9	524.9	516.0
160°	582.2	585.4	582.2	579.1	578.3	566.5	550.8	542.9	538.2	528.7	521.5
162.5°	576.5	579.4	576.5	573.5	572.8	562.9	549.5	542.9	539.5	532.6	527.4
165°	568.2	571.3	568.2	565.1	564.3	557.2	547.7	542.9	541.3	538.2	535.8
167.5°	562.3	563.6	562.3	561.0	560.6	556.0	549.7	546.6	545.2	542.6	540.7
170°	560.6	560.6	560.6	560.6	560.6	556.0	549.7	546.6	546.5	546.3	546.2
172.5°	556.3	555.1	556.3	557.4	557.7	554.0	549.1	546.6	546.6	546.6	546.6
175°	553.6	553.6	553.6	553.6	553.6	551.2	548.1	546.6	547.3	548.8	549.9
177.5°	551.2	549.9	551.2	552.5	552.9	551.0	548.6	547.3	547.8	549.0	549.9
180°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9



TEST NUMBER: P934366

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1919.5	1908.7	1908.7	1890.8	1883.6	1878.3	1869.3	1842.5	1835.3	1828.1	1838.9
5°	1935.6	1915.9	1901.6	1869.3	1842.5	1831.7	1797.7	1733.2	1690.3	1658.0	1640.1
7.5°	1939.2	1914.1	1887.2	1837.1	1772.6	1744.0	1640.1	1521.9	1489.7	1461.1	1443.2
10°	1935.6	1906.9	1869.3	1794.1	1641.9	1591.8	1487.9	1410.9	1391.2	1385.9	1391.2
12.5°	1923.0	1896.2	1844.3	1718.9	1505.8	1471.8	1410.9	1366.2	1362.6	1371.5	1419.9
15°	1901.6	1876.5	1815.6	1618.6	1430.6	1405.6	1362.6	1346.5	1366.2	1428.8	1573.9
17.5°	1880.1	1851.4	1776.2	1520.2	1373.3	1355.4	1325.0	1357.2	1468.2	1552.4	1600.7
20°	1851.4	1817.4	1731.4	1448.5	1332.1	1316.0	1301.7	1446.7	1530.9	1561.3	1588.2
22.5°	1817.4	1781.6	1670.6	1398.4	1289.2	1276.6	1285.6	1496.9	1530.9	1552.4	1575.7
25°	1772.6	1742.2	1598.9	1359.0	1255.1	1240.8	1274.8	1491.5	1511.2	1516.6	1563.1
27.5°	1731.4	1692.1	1523.7	1323.2	1214.0	1208.6	1283.8	1468.2	1482.5	1487.9	1538.1
30°	1681.3	1622.2	1439.6	1285.6	1171.0	1169.2	1285.6	1439.6	1436.0	1450.3	1500.5
32.5°	1629.4	1518.4	1344.7	1239.0	1129.8	1128.0	1273.0	1396.6	1393.0	1412.7	1450.3
35°	1581.0	1437.8	1215.7	1185.3	1077.9	1079.7	1242.6	1346.5	1348.3	1366.2	1389.4
37.5°	1530.9	1367.9	1074.3	1126.2	1027.8	1027.8	1201.4	1299.9	1296.3	1301.7	1333.9
40°	1471.8	1258.7	949.0	1049.3	981.3	975.9	1151.3	1249.8	1237.2	1235.4	1280.2
42.5°	1409.1	1138.7	855.9	947.2	927.5	920.4	1090.4	1188.9	1165.6	1171.0	1228.3
45°	1341.1	1106.5	784.3	800.4	872.0	866.7	1024.2	1119.1	1102.9	1117.3	1176.4
47.5°	1273.0	1042.1	761.0	664.3	812.9	811.2	950.8	1051.1	1042.1	1056.5	1119.1
50°	1179.9	970.5	759.2	569.4	746.7	753.9	863.1	984.8	984.8	997.4	1063.6
52.5°	1060.0	882.8	689.4	515.7	669.7	691.2	786.1	927.5	931.1	943.7	1002.7
55°	950.8	791.5	639.3	474.5	578.4	624.9	710.9	868.5	875.6	888.1	941.9
57.5°	850.5	658.9	628.5	426.2	494.2	539.0	644.6	811.2	814.7	825.5	877.4
60°	743.1	476.3	576.6	374.2	420.8	454.8	583.7	743.1	755.6	762.8	807.6
62.5°	621.3	345.6	522.9	338.4	385.0	392.1	533.6	678.6	694.8	700.1	727.0
65°	442.3	290.1	444.1	308.0	347.4	349.2	479.9	612.4	626.7	635.7	655.4
67.5°	299.0	236.4	338.4	279.3	318.7	320.5	428.0	535.4	555.1	562.3	574.8
70°	207.7	157.6	250.7	248.9	286.5	290.1	372.4	465.6	483.5	488.8	496.0
72.5°	152.2	127.1	207.7	223.8	252.5	256.1	315.1	386.8	404.7	410.1	413.6
75°	116.4	134.3	168.3	195.2	214.9	216.7	257.8	315.1	327.7	331.3	333.1
77.5°	93.1	125.3	123.6	157.6	175.5	171.9	202.3	243.5	254.3	254.3	254.3
80°	69.8	98.5	93.1	112.8	128.9	125.3	145.0	173.7	177.3	180.9	179.1
82.5°	51.9	62.7	62.7	71.6	85.9	82.4	96.7	112.8	112.8	112.8	116.4
85°	32.2	35.8	28.6	37.6	48.3	46.6	53.7	60.9	62.7	62.7	59.1
87.5°	19.7	16.1	9.0	14.3	21.5	21.5	25.1	26.9	25.1	25.1	25.1
90°	9.6	6.6	3.7	6.6	9.6	10.3	16.2	24.1	28.0	24.9	18.7
92.5°	65.0	39.8	14.8	39.8	65.0	71.3	100.2	138.7	157.9	138.4	99.4
95°	127.3	81.4	35.5	81.4	127.3	138.8	246.4	389.9	461.7	412.0	312.6
97.5°	142.3	101.7	61.2	101.7	142.3	152.4	331.9	571.2	690.9	659.5	596.6
100°	154.6	117.9	81.2	117.9	154.6	163.8	363.0	628.6	761.4	763.7	768.3
102.5°	166.7	132.5	98.2	132.5	166.7	175.3	377.3	646.7	781.3	821.4	901.4
105°	185.1	156.0	127.0	156.0	185.1	192.3	387.9	648.7	779.1	868.8	1048.3
107.5°	210.6	183.5	156.5	183.5	210.6	217.4	389.8	619.8	734.8	859.9	1110.3
110°	225.4	200.8	176.4	200.8	225.4	231.4	387.0	594.2	697.9	837.8	1117.6



TEST NUMBER: P934366

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	242.5	219.3	196.0	219.3	242.5	248.4	387.0	571.9	664.3	807.5	1093.9
115°	268.5	247.0	225.5	247.0	268.5	273.9	390.6	546.3	624.1	762.1	1037.9
117.5°	293.7	274.1	254.6	274.1	293.7	298.6	397.9	530.2	596.4	720.9	969.9
120°	308.4	290.0	271.6	290.0	308.4	313.0	403.8	524.8	585.4	699.1	926.6
122.5°	325.3	306.7	288.2	306.7	325.3	329.9	412.2	522.0	576.8	679.3	884.2
125°	347.5	330.5	313.7	330.5	347.5	351.7	423.7	519.6	567.6	654.7	828.7
127.5°	368.4	351.4	334.4	351.4	368.4	372.7	435.1	518.3	559.8	634.6	784.0
130°	382.2	363.8	345.4	363.8	382.2	386.8	443.4	519.1	556.9	623.4	756.4
132.5°	393.7	375.2	356.9	375.2	393.7	398.2	450.3	519.6	554.4	613.9	733.0
135°	407.3	390.6	373.9	390.6	407.3	411.5	457.6	519.1	549.9	599.8	699.5
137.5°	424.4	407.8	391.3	407.8	424.4	428.5	468.7	522.3	549.2	591.4	675.7
140°	436.1	420.9	405.6	420.9	436.1	440.0	475.5	522.9	546.6	583.0	655.8
142.5°	444.9	430.7	416.7	430.7	444.9	448.4	481.1	524.7	546.6	578.6	642.6
145°	458.3	446.0	433.7	446.0	458.3	461.4	488.6	524.8	542.9	569.1	621.4
147.5°	474.6	462.6	450.6	462.6	474.6	477.6	499.3	528.4	542.9	563.5	604.6
150°	483.4	472.5	461.7	472.5	483.4	486.1	505.0	530.3	542.9	560.3	595.1
152.5°	489.6	481.4	473.2	481.4	489.6	491.6	508.7	531.5	542.9	557.8	587.4
155°	502.3	496.2	490.1	496.2	502.3	503.8	516.9	534.2	542.9	554.7	578.3
157.5°	514.4	508.5	502.6	508.5	514.4	516.0	524.9	536.9	542.9	552.0	570.4
160°	520.4	515.8	511.1	515.8	520.4	521.5	528.7	538.2	542.9	550.8	566.5
162.5°	526.5	523.1	519.6	523.1	526.5	527.4	532.6	539.5	542.9	549.5	562.9
165°	535.0	532.0	528.9	532.0	535.0	535.8	538.2	541.3	542.9	547.7	557.2
167.5°	540.3	538.8	537.4	538.8	540.3	540.7	542.6	545.2	546.6	549.7	556.0
170°	545.9	544.3	542.9	544.3	545.9	546.2	546.3	546.5	546.6	549.7	556.0
172.5°	546.5	546.2	545.9	546.2	546.5	546.6	546.6	546.6	546.6	549.1	554.0
175°	549.9	549.9	549.9	549.9	549.9	549.9	548.8	547.3	546.6	548.1	551.2
177.5°	549.9	549.9	549.9	549.9	549.9	549.9	549.0	547.8	547.3	548.6	551.0
180°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9



TEST NUMBER: P934366

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1826.3	1821.0	1828.1	1808.4	1828.1	1821.0	1826.3	1838.9	1828.1	1835.3	1842.5
5°	1602.5	1593.6	1564.9	1541.6	1564.9	1593.6	1602.5	1640.1	1658.0	1690.3	1733.2
7.5°	1432.4	1425.2	1418.1	1403.8	1418.1	1425.2	1432.4	1443.2	1461.1	1489.7	1521.9
10°	1394.8	1396.6	1407.3	1405.6	1407.3	1396.6	1394.8	1391.2	1385.9	1391.2	1410.9
12.5°	1491.5	1507.6	1566.7	1563.1	1566.7	1507.6	1491.5	1419.9	1371.5	1362.6	1366.2
15°	1602.5	1607.9	1620.4	1622.2	1620.4	1607.9	1602.5	1573.9	1428.8	1366.2	1346.5
17.5°	1613.3	1615.1	1624.0	1624.0	1624.0	1615.1	1613.3	1600.7	1552.4	1468.2	1357.2
20°	1604.3	1607.9	1625.8	1629.4	1625.8	1607.9	1604.3	1588.2	1561.3	1530.9	1446.7
22.5°	1600.7	1607.9	1622.2	1620.4	1622.2	1607.9	1600.7	1575.7	1552.4	1530.9	1496.9
25°	1582.8	1582.8	1584.6	1586.4	1584.6	1582.8	1582.8	1563.1	1516.6	1511.2	1491.5
27.5°	1545.2	1548.8	1559.5	1557.8	1559.5	1548.8	1545.2	1538.1	1487.9	1482.5	1468.2
30°	1511.2	1507.6	1498.7	1491.5	1498.7	1507.6	1511.2	1500.5	1450.3	1436.0	1439.6
32.5°	1453.9	1444.9	1436.0	1430.6	1436.0	1444.9	1453.9	1450.3	1412.7	1393.0	1396.6
35°	1385.9	1387.6	1385.9	1380.5	1385.9	1387.6	1385.9	1389.4	1366.2	1348.3	1346.5
37.5°	1337.5	1341.1	1339.3	1332.1	1339.3	1341.1	1337.5	1333.9	1301.7	1296.3	1299.9
40°	1287.4	1289.2	1287.4	1282.0	1287.4	1289.2	1287.4	1280.2	1235.4	1237.2	1249.8
42.5°	1239.0	1237.2	1231.9	1228.3	1231.9	1237.2	1239.0	1228.3	1171.0	1165.6	1188.9
45°	1183.5	1185.3	1174.6	1169.2	1174.6	1185.3	1183.5	1176.4	1117.3	1102.9	1119.1
47.5°	1128.0	1128.0	1119.1	1113.7	1119.1	1128.0	1128.0	1119.1	1056.5	1042.1	1051.1
50°	1068.9	1067.2	1054.7	1052.9	1054.7	1067.2	1068.9	1063.6	997.4	984.8	984.8
52.5°	1001.0	1001.0	1002.7	1006.3	1002.7	1001.0	1001.0	1002.7	943.7	931.1	927.5
55°	941.9	943.7	956.2	959.8	956.2	943.7	941.9	941.9	888.1	875.6	868.5
57.5°	881.0	881.0	889.9	889.9	889.9	881.0	881.0	877.4	825.5	814.7	811.2
60°	811.2	814.7	821.9	820.1	821.9	814.7	811.2	807.6	762.8	755.6	743.1
62.5°	737.7	741.3	743.1	739.5	743.1	741.3	737.7	727.0	700.1	694.8	678.6
65°	660.7	664.3	666.1	662.5	666.1	664.3	660.7	655.4	635.7	626.7	612.4
67.5°	582.0	580.2	578.4	585.5	578.4	580.2	582.0	574.8	562.3	555.1	535.4
70°	501.4	501.4	499.6	503.2	499.6	501.4	501.4	496.0	488.8	483.5	465.6
72.5°	415.4	413.6	420.8	415.4	420.8	413.6	415.4	413.6	410.1	404.7	386.8
75°	331.3	334.8	331.3	336.6	331.3	334.8	331.3	333.1	331.3	327.7	315.1
77.5°	252.5	256.1	252.5	252.5	252.5	256.1	252.5	254.3	254.3	254.3	243.5
80°	179.1	177.3	177.3	175.5	177.3	177.3	179.1	179.1	180.9	177.3	173.7
82.5°	114.6	112.8	112.8	116.4	112.8	112.8	114.6	116.4	112.8	112.8	112.8
85°	62.7	64.5	60.9	60.9	60.9	64.5	62.7	59.1	62.7	62.7	60.9
87.5°	23.3	21.5	21.5	21.5	21.5	21.5	23.3	25.1	25.1	25.1	26.9
90°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	18.7	24.9	28.0	24.1
92.5°	70.1	67.3	56.1	45.0	56.1	67.3	70.1	99.4	138.4	157.9	138.7
95°	238.1	229.6	195.8	162.1	195.8	229.6	238.1	312.6	412.0	461.7	389.9
97.5°	549.5	533.4	469.1	404.9	469.1	533.4	549.5	596.6	659.5	690.9	571.2
100°	771.7	752.5	676.0	599.3	676.0	752.5	771.7	768.3	763.7	761.4	628.6
102.5°	961.4	945.0	879.4	813.7	879.4	945.0	961.4	901.4	821.4	781.3	646.7
105°	1182.9	1174.0	1138.7	1103.5	1138.7	1174.0	1182.9	1048.3	868.8	779.1	648.7
107.5°	1298.0	1300.2	1308.7	1317.2	1308.7	1300.2	1298.0	1110.3	859.9	734.8	619.8
110°	1327.5	1336.7	1373.4	1410.2	1373.4	1336.7	1327.5	1117.6	837.8	697.9	594.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1308.7	1322.8	1379.2	1435.6	1379.2	1322.8	1308.7	1093.9	807.5	664.3	571.9
115°	1244.8	1264.4	1342.6	1420.9	1342.6	1264.4	1244.8	1037.9	762.1	624.1	546.3
117.5°	1156.7	1178.3	1265.2	1351.9	1265.2	1178.3	1156.7	969.9	720.9	596.4	530.2
120°	1097.2	1118.2	1202.6	1286.9	1202.6	1118.2	1097.2	926.6	699.1	585.4	524.8
122.5°	1037.8	1058.6	1141.8	1225.0	1141.8	1058.6	1037.8	884.2	679.3	576.8	522.0
125°	959.2	978.4	1054.9	1131.6	1054.9	978.4	959.2	828.7	654.7	567.6	519.6
127.5°	896.1	912.2	976.9	1041.5	976.9	912.2	896.1	784.0	634.6	559.8	518.3
130°	856.2	871.1	930.9	990.6	930.9	871.1	856.2	756.4	623.4	556.9	519.1
132.5°	822.3	835.6	889.1	942.6	889.1	835.6	822.3	733.0	613.9	554.4	519.6
135°	774.3	785.8	831.9	878.0	831.9	785.8	774.3	699.5	599.8	549.9	519.1
137.5°	738.9	748.3	786.1	823.8	786.1	748.3	738.9	675.7	591.4	549.2	522.3
140°	710.4	719.2	754.5	789.8	754.5	719.2	710.4	655.8	583.0	546.6	522.9
142.5°	690.6	698.2	728.4	758.8	728.4	698.2	690.6	642.6	578.6	546.6	524.7
145°	660.7	666.4	689.4	712.3	689.4	666.4	660.7	621.4	569.1	542.9	524.8
147.5°	635.5	640.2	659.3	678.4	659.3	640.2	635.5	604.6	563.5	542.9	528.4
150°	621.2	625.0	640.4	655.8	640.4	625.0	621.2	595.1	560.3	542.9	530.3
152.5°	609.7	612.7	624.3	635.9	624.3	612.7	609.7	587.4	557.8	542.9	531.5
155°	596.0	598.0	605.7	613.4	605.7	598.0	596.0	578.3	554.7	542.9	534.2
157.5°	584.2	585.5	591.0	596.4	591.0	585.5	584.2	570.4	552.0	542.9	536.9
160°	578.3	579.1	582.2	585.4	582.2	579.1	578.3	566.5	550.8	542.9	538.2
162.5°	572.8	573.5	576.5	579.4	576.5	573.5	572.8	562.9	549.5	542.9	539.5
165°	564.3	565.1	568.2	571.3	568.2	565.1	564.3	557.2	547.7	542.9	541.3
167.5°	560.6	561.0	562.3	563.6	562.3	561.0	560.6	556.0	549.7	546.6	545.2
170°	560.6	560.6	560.6	560.6	560.6	560.6	560.6	556.0	549.7	546.6	546.5
172.5°	557.7	557.4	556.3	555.1	556.3	557.4	557.7	554.0	549.1	546.6	546.6
175°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	551.2	548.1	546.6	547.3
177.5°	552.9	552.5	551.2	549.9	551.2	552.5	552.9	551.0	548.6	547.3	547.8
180°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9



TEST NUMBER: P934366

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1869.3	1878.3	1883.6	1890.8	1908.7
5°	1797.7	1831.7	1842.5	1869.3	1901.6
7.5°	1640.1	1744.0	1772.6	1837.1	1887.2
10°	1487.9	1591.8	1641.9	1794.1	1869.3
12.5°	1410.9	1471.8	1505.8	1718.9	1844.3
15°	1362.6	1405.6	1430.6	1618.6	1815.6
17.5°	1325.0	1355.4	1373.3	1520.2	1776.2
20°	1301.7	1316.0	1332.1	1448.5	1731.4
22.5°	1285.6	1276.6	1289.2	1398.4	1670.6
25°	1274.8	1240.8	1255.1	1359.0	1598.9
27.5°	1283.8	1208.6	1214.0	1323.2	1523.7
30°	1285.6	1169.2	1171.0	1285.6	1439.6
32.5°	1273.0	1128.0	1129.8	1239.0	1344.7
35°	1242.6	1079.7	1077.9	1185.3	1215.7
37.5°	1201.4	1027.8	1027.8	1126.2	1074.3
40°	1151.3	975.9	981.3	1049.3	949.0
42.5°	1090.4	920.4	927.5	947.2	855.9
45°	1024.2	866.7	872.0	800.4	784.3
47.5°	950.8	811.2	812.9	664.3	761.0
50°	863.1	753.9	746.7	569.4	759.2
52.5°	786.1	691.2	669.7	515.7	689.4
55°	710.9	624.9	578.4	474.5	639.3
57.5°	644.6	539.0	494.2	426.2	628.5
60°	583.7	454.8	420.8	374.2	576.6
62.5°	533.6	392.1	385.0	338.4	522.9
65°	479.9	349.2	347.4	308.0	444.1
67.5°	428.0	320.5	318.7	279.3	338.4
70°	372.4	290.1	286.5	248.9	250.7
72.5°	315.1	256.1	252.5	223.8	207.7
75°	257.8	216.7	214.9	195.2	168.3
77.5°	202.3	171.9	175.5	157.6	123.6
80°	145.0	125.3	128.9	112.8	93.1
82.5°	96.7	82.4	85.9	71.6	62.7
85°	53.7	46.6	48.3	37.6	28.6
87.5°	25.1	21.5	21.5	14.3	9.0
90°	16.2	10.3	9.6	6.6	3.7
92.5°	100.2	71.3	65.0	39.8	14.8
95°	246.4	138.8	127.3	81.4	35.5
97.5°	331.9	152.4	142.3	101.7	61.2
100°	363.0	163.8	154.6	117.9	81.2
102.5°	377.3	175.3	166.7	132.5	98.2
105°	387.9	192.3	185.1	156.0	127.0
107.5°	389.8	217.4	210.6	183.5	156.5
110°	387.0	231.4	225.4	200.8	176.4



TEST NUMBER: P934366

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	387.0	248.4	242.5	219.3	196.0
115°	390.6	273.9	268.5	247.0	225.5
117.5°	397.9	298.6	293.7	274.1	254.6
120°	403.8	313.0	308.4	290.0	271.6
122.5°	412.2	329.9	325.3	306.7	288.2
125°	423.7	351.7	347.5	330.5	313.7
127.5°	435.1	372.7	368.4	351.4	334.4
130°	443.4	386.8	382.2	363.8	345.4
132.5°	450.3	398.2	393.7	375.2	356.9
135°	457.6	411.5	407.3	390.6	373.9
137.5°	468.7	428.5	424.4	407.8	391.3
140°	475.5	440.0	436.1	420.9	405.6
142.5°	481.1	448.4	444.9	430.7	416.7
145°	488.6	461.4	458.3	446.0	433.7
147.5°	499.3	477.6	474.6	462.6	450.6
150°	505.0	486.1	483.4	472.5	461.7
152.5°	508.7	491.6	489.6	481.4	473.2
155°	516.9	503.8	502.3	496.2	490.1
157.5°	524.9	516.0	514.4	508.5	502.6
160°	528.7	521.5	520.4	515.8	511.1
162.5°	532.6	527.4	526.5	523.1	519.6
165°	538.2	535.8	535.0	532.0	528.9
167.5°	542.6	540.7	540.3	538.8	537.4
170°	546.3	546.2	545.9	544.3	542.9
172.5°	546.6	546.6	546.5	546.2	545.9
175°	548.8	549.9	549.9	549.9	549.9
177.5°	549.0	549.9	549.9	549.9	549.9
180°	549.9	549.9	549.9	549.9	549.9



TEST NUMBER: P934366
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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	13.06	13.99	13.94	14.90	16.05	15.90	16.83	16.78	17.74	18.89
	3H	13.54	14.38	14.44	15.30	16.48	17.25	18.09	18.15	19.01	20.18
	4H	13.74	14.53	14.65	15.45	16.64	17.70	18.49	18.61	19.41	20.60
	6H	13.86	14.59	14.78	15.52	16.72	17.99	18.72	18.91	19.65	20.85
	8H	13.86	14.56	14.79	15.50	16.70	18.07	18.76	19.00	19.71	20.91
	12H	13.83	14.50	14.77	15.44	16.66	18.11	18.77	19.05	19.71	20.94
4H	2H	14.10	14.90	15.02	15.82	17.01	16.31	17.11	17.23	18.03	19.22
	3H	15.14	15.80	16.07	16.75	17.95	17.83	18.49	18.76	19.44	20.65
	4H	15.42	16.02	16.36	16.97	18.19	18.36	18.97	19.30	19.91	21.14
	6H	15.54	16.07	16.50	17.04	18.26	18.73	19.25	19.69	20.22	21.45
	8H	15.55	16.04	16.51	17.00	18.24	18.84	19.33	19.80	20.29	21.54
	12H	15.52	15.96	16.50	16.94	18.19	18.90	19.34	19.88	20.33	21.57
8H	4H	15.88	16.36	16.83	17.33	18.57	18.49	18.98	19.45	19.94	21.19
	6H	16.14	16.54	17.12	17.55	18.79	18.93	19.34	19.92	20.34	21.58
	8H	16.18	16.54	17.17	17.53	18.79	19.09	19.44	20.08	20.44	21.70
	12H	16.17	16.48	17.17	17.47	18.78	19.19	19.50	20.18	20.49	21.80
12H	4H	15.89	16.32	16.86	17.31	18.55	18.46	18.90	19.44	19.88	21.13
	6H	16.20	16.56	17.19	17.55	18.81	18.93	19.29	19.92	20.28	21.54
	8H	16.27	16.59	17.27	17.57	18.88	19.10	19.41	20.09	20.40	21.71