

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: P934461

Luminaire Tested: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934461
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

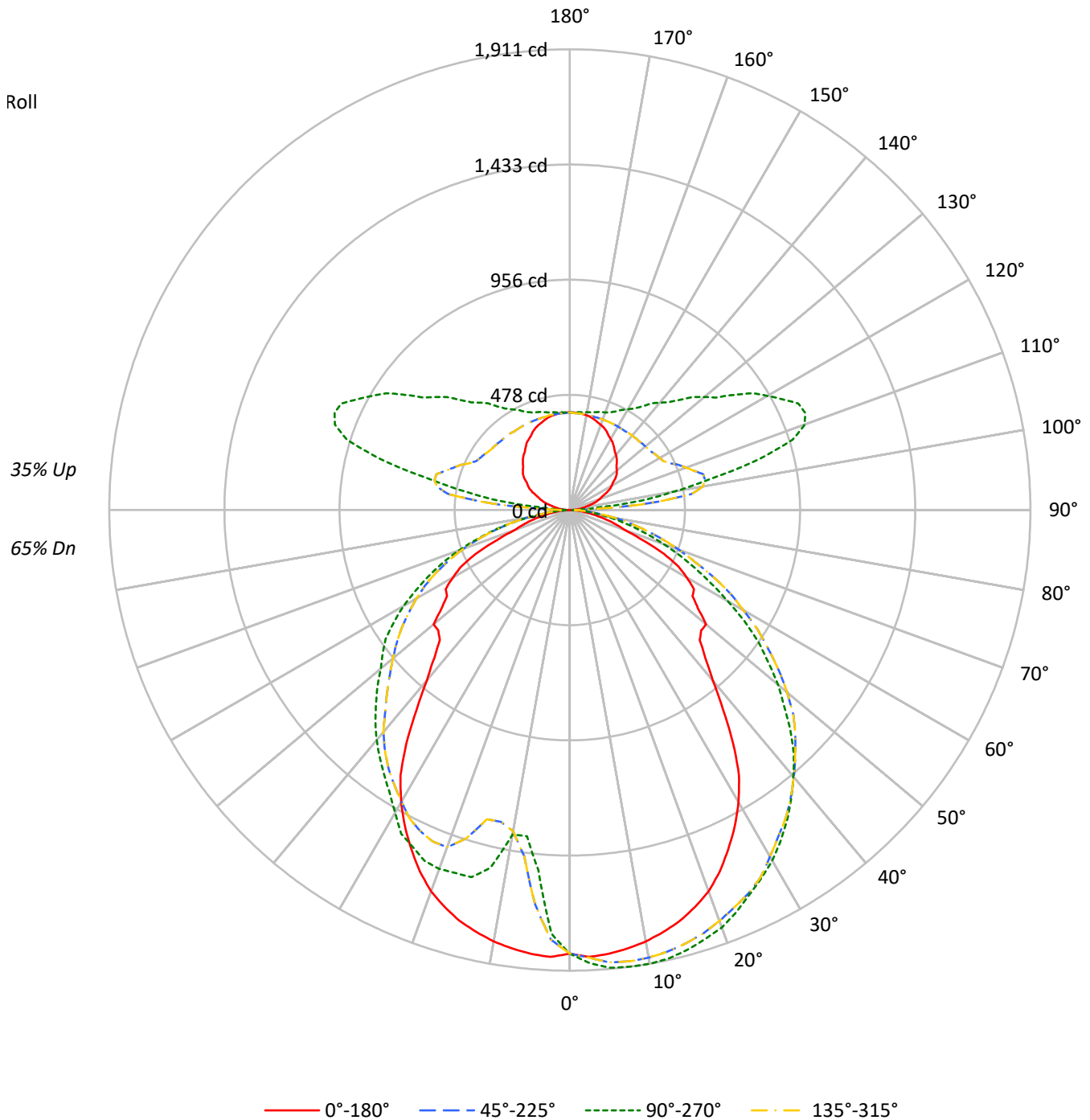
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7394.4 lumens
Efficiency: N/A
Efficacy: 109.1 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: Semi-Direct

Input Watts (W): 67.8
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





TEST NUMBER: P934461

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11381	11381	11381	11381
5°	11461	11488	11461	9033
10°	11381	11317	11381	8091
15°	11253	11071	11253	9245
20°	11013	10781	11013	9264
25°	10527	10357	10527	9068
30°	9901	10006	9901	8637
35°	8822	9560	8822	8164
40°	7347	9037	7347	7805
45°	6561	8424	6561	7393
50°	6963	7693	6963	6981
55°	6546	6905	6546	6742
60°	6739	5864	6739	6174
65°	6101	4848	6101	5419
70°	4213	3864	4213	4542
75°	3681	2855	3681	3421
80°	2946	1889	2946	2056
85°	1657	1000	1657	850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10061 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	2.2
10°-20°	471.5	6.4
20°-30°	728.9	9.9
30°-40°	870.1	11.8
40°-50°	875.2	11.8
50°-60°	761.5	10.3
60°-70°	539.9	7.3
70°-80°	285.7	3.9
80°-90°	72.7	1.0
90°-100°	197.2	2.7
100°-110°	518.5	7.0
110°-120°	537.6	7.3
120°-130°	431.2	5.8
130°-140°	338.4	4.6
140°-150°	259.7	3.5
150°-160°	187.0	2.5
160°-170°	114.4	1.5
170°-180°	38.7	0.5
0°-30°	1366.4	18.5
0°-40°	2236.5	30.2
0°-60°	3873.3	52.4
0°-90°	4771.6	64.5
90°-120°	1253.4	16.9
90°-150°	2282.7	30.9
90°-180°	2623.0	35.5
0°-180°	7394.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1840	1840	1840	1840	1840	
5°	1848	1906	1848	1499	1848	175
15°	1765	1888	1765	1577	1765	497
25°	1554	1761	1554	1542	1554	714
35°	1182	1572	1182	1342	1182	731
45°	762	1295	762	1136	762	611
55°	621	956	621	933	621	571
65°	432	576	432	644	432	413
75°	164	273	164	327	164	172
85°	28	70	28	59	28	38
90°	3	10	3	10	3	3
95°	26	119	26	119	26	29
105°	94	812	94	812	94	99
115°	166	1045	166	1045	166	164
125°	231	832	231	832	231	205
135°	275	646	275	646	275	213
145°	319	524	319	524	319	200
155°	361	451	361	451	361	166
165°	389	420	389	420	389	110
175°	405	407	405	407	405	38
180°	405	405	405	405	405	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7
2.5°	1855.4	1855.4	1865.9	1869.3	1869.3	1864.1	1858.8	1864.1	1879.7	1885.0	1883.3
5°	1848.4	1862.3	1881.5	1885.0	1888.4	1886.7	1883.3	1886.7	1904.1	1907.6	1909.3
7.5°	1834.5	1860.6	1885.0	1890.2	1895.4	1890.2	1888.4	1891.9	1909.3	1912.9	1912.9
10°	1817.1	1853.7	1881.5	1885.0	1890.2	1885.0	1885.0	1891.9	1909.3	1912.9	1914.5
12.5°	1792.7	1843.2	1869.3	1872.8	1879.7	1878.0	1876.2	1883.3	1900.6	1904.1	1904.1
15°	1764.9	1824.1	1848.4	1851.9	1864.1	1860.6	1860.6	1867.5	1886.7	1891.9	1890.2
17.5°	1726.6	1799.6	1827.6	1832.8	1841.4	1839.7	1841.4	1848.4	1865.9	1869.3	1871.0
20°	1683.1	1766.6	1799.6	1804.9	1813.6	1813.6	1813.6	1822.3	1839.7	1846.7	1846.7
22.5°	1623.9	1731.8	1766.6	1770.1	1780.6	1780.6	1784.0	1796.2	1811.8	1813.6	1813.6
25°	1554.2	1693.5	1723.1	1733.5	1744.0	1749.2	1754.4	1761.4	1766.6	1764.9	1766.6
27.5°	1481.2	1644.8	1683.1	1690.0	1704.0	1709.2	1716.1	1717.9	1719.6	1724.8	1721.4
30°	1399.4	1576.9	1634.3	1641.3	1663.9	1667.4	1660.4	1663.9	1672.6	1676.1	1679.6
32.5°	1307.1	1476.0	1583.8	1599.6	1620.4	1609.9	1608.3	1613.4	1627.4	1627.4	1630.8
35°	1181.8	1397.6	1536.9	1550.8	1566.4	1554.2	1561.3	1562.9	1571.6	1576.9	1575.1
37.5°	1044.3	1329.7	1488.1	1498.6	1510.8	1495.1	1505.5	1510.8	1517.7	1514.3	1514.3
40°	922.5	1223.6	1430.7	1437.7	1448.1	1435.9	1446.4	1449.8	1453.3	1449.8	1448.1
42.5°	831.9	1106.9	1369.8	1378.5	1371.6	1380.3	1383.7	1390.7	1385.4	1378.5	1378.5
45°	762.4	1075.7	1303.7	1314.1	1303.7	1317.5	1322.8	1322.8	1307.1	1303.7	1301.9
47.5°	739.7	1012.9	1237.5	1237.5	1232.3	1249.6	1258.3	1246.2	1230.5	1225.3	1225.3
50°	737.9	943.4	1147.0	1140.0	1164.4	1185.3	1176.6	1164.4	1152.2	1133.1	1133.1
52.5°	670.1	858.1	1030.3	1056.5	1094.8	1106.9	1093.0	1080.8	1059.9	1051.2	1044.3
55°	621.4	769.3	924.2	976.4	1016.5	1032.1	1006.0	993.8	962.5	957.3	953.8
57.5°	610.9	640.5	826.7	892.9	941.6	939.9	924.2	901.6	875.5	870.2	868.6
60°	560.4	463.0	722.3	800.7	851.1	845.9	831.9	811.1	786.7	783.3	779.8
62.5°	508.2	336.0	603.9	692.7	764.1	762.4	750.2	718.8	701.4	692.7	685.8
65°	431.7	281.9	429.9	576.1	678.8	682.3	656.2	633.5	614.4	603.9	602.3
67.5°	328.9	229.8	290.6	480.3	597.0	593.6	560.4	550.0	525.7	520.4	509.9
70°	243.6	153.2	201.9	389.9	517.0	508.2	482.1	470.0	447.3	435.1	428.2
72.5°	201.9	123.6	147.9	302.8	435.1	424.7	402.1	388.1	369.0	358.5	351.6
75°	163.6	130.5	113.1	224.5	353.3	346.4	325.5	311.5	295.9	281.9	283.7
77.5°	120.1	121.8	90.5	165.4	280.2	269.8	257.6	240.2	233.2	219.3	219.3
80°	90.5	95.7	67.9	113.1	201.9	201.9	191.5	179.3	167.1	160.1	160.1
82.5°	61.0	61.0	50.5	71.3	137.5	132.3	125.3	121.8	114.9	111.4	111.4
85°	27.8	34.8	31.4	43.5	74.8	78.3	78.3	74.8	73.1	69.6	71.3
87.5°	8.7	15.6	19.1	24.3	38.3	40.1	41.8	41.8	41.8	43.5	43.5
90°	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.7	10.3	10.3
92.5°	10.9	29.3	47.8	52.4	73.7	102.1	116.2	101.8	73.1	51.6	49.5
95°	26.1	59.8	93.6	102.1	181.3	286.9	339.7	303.2	230.0	175.1	168.9
97.5°	45.1	74.9	104.7	112.2	244.3	420.4	508.4	485.3	439.0	404.3	392.4
100°	59.7	86.8	113.8	120.6	267.1	462.5	560.2	561.8	565.3	567.8	553.8
102.5°	72.2	97.5	122.7	129.0	277.6	475.8	574.8	604.3	663.2	707.4	695.4
105°	93.5	114.8	136.1	141.5	285.4	477.3	573.2	639.2	771.2	870.3	863.8
107.5°	115.1	135.1	154.9	159.9	286.9	456.0	540.6	632.6	816.8	955.0	956.6
110°	129.8	147.7	165.7	170.2	284.7	437.2	513.5	616.4	822.4	976.8	983.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	144.2	161.3	178.5	182.8	284.7	420.8	488.8	594.2	804.9	962.9	973.2
115°	165.9	181.7	197.5	201.5	287.4	401.9	459.2	560.7	763.7	915.9	930.3
117.5°	187.3	201.7	216.1	219.7	292.7	390.1	438.8	530.4	713.6	851.0	867.0
120°	199.8	213.3	226.9	230.3	297.0	386.1	430.6	514.3	681.7	807.2	822.8
122.5°	212.1	225.7	239.3	242.8	303.3	384.0	424.4	499.8	650.6	763.6	778.9
125°	230.8	243.2	255.7	258.7	311.7	382.3	417.6	481.7	609.7	705.7	719.8
127.5°	246.0	258.6	271.1	274.3	320.1	381.4	411.9	466.9	576.8	659.3	671.1
130°	254.2	267.7	281.2	284.6	326.3	381.9	409.7	458.6	556.6	630.0	641.0
132.5°	262.6	276.1	289.7	293.0	331.3	382.3	407.9	451.7	539.3	605.0	614.8
135°	275.1	287.4	299.7	302.8	336.7	382.0	404.6	441.3	514.7	569.7	578.2
137.5°	287.8	300.0	312.1	315.2	344.8	384.3	404.0	435.0	497.0	543.6	550.5
140°	298.4	309.7	320.8	323.7	349.8	384.7	402.2	429.0	482.5	522.7	529.2
142.5°	306.5	316.9	327.3	329.9	354.0	386.1	402.2	425.7	472.7	508.0	513.6
145°	319.1	328.1	337.2	339.5	359.5	386.1	399.5	418.7	457.2	486.1	490.3
147.5°	331.6	340.3	349.2	351.4	367.4	388.7	399.5	414.6	444.9	467.6	471.1
150°	339.7	347.7	355.6	357.6	371.6	390.1	399.5	412.3	437.8	457.0	459.8
152.5°	348.1	354.1	360.2	361.7	374.2	391.0	399.5	410.3	432.2	448.5	450.7
155°	360.6	365.1	369.5	370.6	380.2	393.0	399.5	408.1	425.5	438.5	439.9
157.5°	369.9	374.2	378.5	379.6	386.2	395.1	399.5	406.2	419.7	429.8	430.8
160°	376.1	379.4	382.8	383.6	388.9	395.9	399.5	405.2	416.8	425.5	426.1
162.5°	382.3	384.9	387.4	388.0	391.8	396.9	399.5	404.4	414.1	421.4	421.9
165°	389.1	391.4	393.7	394.3	396.0	398.3	399.5	403.0	409.9	415.2	415.8
167.5°	395.3	396.4	397.5	397.8	399.3	401.2	402.2	404.5	409.0	412.5	412.7
170°	399.5	400.5	401.6	401.9	402.0	402.1	402.2	404.5	409.0	412.5	412.5
172.5°	401.6	401.9	402.1	402.2	402.2	402.2	402.2	403.9	407.5	410.3	410.1
175°	404.6	404.6	404.6	404.6	403.8	402.7	402.2	403.3	405.6	407.3	407.3
177.5°	404.6	404.6	404.6	404.6	404.0	403.1	402.7	403.6	405.4	406.7	406.5
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7
2.5°	1886.7	1881.5	1886.7	1883.3	1885.0	1879.7	1864.1	1858.8	1864.1	1869.3	1869.3
5°	1909.3	1905.8	1909.3	1909.3	1907.6	1904.1	1886.7	1883.3	1886.7	1888.4	1885.0
7.5°	1916.3	1911.1	1916.3	1912.9	1912.9	1909.3	1891.9	1888.4	1890.2	1895.4	1890.2
10°	1916.3	1911.1	1916.3	1914.5	1912.9	1909.3	1891.9	1885.0	1885.0	1890.2	1885.0
12.5°	1907.6	1904.1	1907.6	1904.1	1904.1	1900.6	1883.3	1876.2	1878.0	1879.7	1872.8
15°	1893.7	1888.4	1893.7	1890.2	1891.9	1886.7	1867.5	1860.6	1860.6	1864.1	1851.9
17.5°	1872.8	1865.9	1872.8	1871.0	1869.3	1865.9	1848.4	1841.4	1839.7	1841.4	1832.8
20°	1848.4	1843.2	1848.4	1846.7	1846.7	1839.7	1822.3	1813.6	1813.6	1813.6	1804.9
22.5°	1810.1	1804.9	1810.1	1813.6	1813.6	1811.8	1796.2	1784.0	1780.6	1780.6	1770.1
25°	1766.6	1761.4	1766.6	1766.6	1764.9	1766.6	1761.4	1754.4	1749.2	1744.0	1733.5
27.5°	1724.8	1721.4	1724.8	1721.4	1724.8	1719.6	1717.9	1716.1	1709.2	1704.0	1690.0
30°	1683.1	1679.6	1683.1	1679.6	1676.1	1672.6	1663.9	1660.4	1667.4	1663.9	1641.3
32.5°	1630.8	1627.4	1630.8	1630.8	1627.4	1627.4	1613.4	1608.3	1609.9	1620.4	1599.6
35°	1576.9	1571.6	1576.9	1575.1	1576.9	1571.6	1562.9	1561.3	1554.2	1566.4	1550.8
37.5°	1514.3	1509.0	1514.3	1514.3	1514.3	1517.7	1510.8	1505.5	1495.1	1510.8	1498.6
40°	1449.8	1442.9	1449.8	1448.1	1449.8	1453.3	1449.8	1446.4	1435.9	1448.1	1437.7
42.5°	1376.7	1375.0	1376.7	1378.5	1378.5	1385.4	1390.7	1383.7	1380.3	1371.6	1378.5
45°	1298.4	1295.0	1298.4	1301.9	1303.7	1307.1	1322.8	1322.8	1317.5	1303.7	1314.1
47.5°	1214.9	1206.2	1214.9	1225.3	1225.3	1230.5	1246.2	1258.3	1249.6	1232.3	1237.5
50°	1126.1	1127.8	1126.1	1133.1	1133.1	1152.2	1164.4	1176.6	1185.3	1164.4	1140.0
52.5°	1039.1	1037.4	1039.1	1044.3	1051.2	1059.9	1080.8	1093.0	1106.9	1094.8	1056.5
55°	952.1	955.5	952.1	953.8	957.3	962.5	993.8	1006.0	1032.1	1016.5	976.4
57.5°	865.0	859.8	865.0	868.6	870.2	875.5	901.6	924.2	939.9	941.6	892.9
60°	764.1	757.1	764.1	779.8	783.3	786.7	811.1	831.9	845.9	851.1	800.7
62.5°	675.3	663.1	675.3	685.8	692.7	701.4	718.8	750.2	762.4	764.1	692.7
65°	581.3	576.1	581.3	602.3	603.9	614.4	633.5	656.2	682.3	678.8	576.1
67.5°	496.1	496.1	496.1	509.9	520.4	525.7	550.0	560.4	593.6	597.0	480.3
70°	417.7	416.0	417.7	428.2	435.1	447.3	470.0	482.1	508.2	517.0	389.9
72.5°	342.9	341.1	342.9	351.6	358.5	369.0	388.1	402.1	424.7	435.1	302.8
75°	276.8	273.2	276.8	283.7	281.9	295.9	311.5	325.5	346.4	353.3	224.5
77.5°	212.4	212.4	212.4	219.3	219.3	233.2	240.2	257.6	269.8	280.2	165.4
80°	158.4	156.7	158.4	160.1	160.1	167.1	179.3	191.5	201.9	201.9	113.1
82.5°	111.4	107.9	111.4	111.4	111.4	114.9	121.8	125.3	132.3	137.5	71.3
85°	69.6	69.6	69.6	71.3	69.6	73.1	74.8	78.3	78.3	74.8	43.5
87.5°	45.2	43.5	45.2	43.5	43.5	41.8	41.8	41.8	40.1	38.3	24.3
90°	10.3	10.3	10.3	10.3	10.3	13.7	18.4	20.6	17.7	11.9	7.6
92.5°	41.3	33.1	41.3	49.5	51.6	73.1	101.8	116.2	102.1	73.7	52.4
95°	144.0	119.2	144.0	168.9	175.1	230.0	303.2	339.7	286.9	181.3	102.1
97.5°	345.2	297.9	345.2	392.4	404.3	439.0	485.3	508.4	420.4	244.3	112.2
100°	497.4	441.0	497.4	553.8	567.8	565.3	561.8	560.2	462.5	267.1	120.6
102.5°	647.0	598.7	647.0	695.4	707.4	663.2	604.3	574.8	475.8	277.6	129.0
105°	837.9	811.9	837.9	863.8	870.3	771.2	639.2	573.2	477.3	285.4	141.5
107.5°	962.8	969.1	962.8	956.6	955.0	816.8	632.6	540.6	456.0	286.9	159.9
110°	1010.5	1037.5	1010.5	983.5	976.8	822.4	616.4	513.5	437.2	284.7	170.2



TEST NUMBER: P934461

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1014.8	1056.2	1014.8	973.2	962.9	804.9	594.2	488.8	420.8	284.7	182.8
115°	987.8	1045.4	987.8	930.3	915.9	763.7	560.7	459.2	401.9	287.4	201.5
117.5°	930.8	994.7	930.8	867.0	851.0	713.6	530.4	438.8	390.1	292.7	219.7
120°	884.8	946.9	884.8	822.8	807.2	681.7	514.3	430.6	386.1	297.0	230.3
122.5°	840.1	901.2	840.1	778.9	763.6	650.6	499.8	424.4	384.0	303.3	242.8
125°	776.2	832.5	776.2	719.8	705.7	609.7	481.7	417.6	382.3	311.7	258.7
127.5°	718.7	766.3	718.7	671.1	659.3	576.8	466.9	411.9	381.4	320.1	274.3
130°	684.9	728.8	684.9	641.0	630.0	556.6	458.6	409.7	381.9	326.3	284.6
132.5°	654.2	693.5	654.2	614.8	605.0	539.3	451.7	407.9	382.3	331.3	293.0
135°	612.1	646.0	612.1	578.2	569.7	514.7	441.3	404.6	382.0	336.7	302.8
137.5°	578.4	606.1	578.4	550.5	543.6	497.0	435.0	404.0	384.3	344.8	315.2
140°	555.1	581.1	555.1	529.2	522.7	482.5	429.0	402.2	384.7	349.8	323.7
142.5°	535.9	558.2	535.9	513.6	508.0	472.7	425.7	402.2	386.1	354.0	329.9
145°	507.2	524.1	507.2	490.3	486.1	457.2	418.7	399.5	386.1	359.5	339.5
147.5°	485.1	499.1	485.1	471.1	467.6	444.9	414.6	399.5	388.7	367.4	351.4
150°	471.2	482.5	471.2	459.8	457.0	437.8	412.3	399.5	390.1	371.6	357.6
152.5°	459.3	467.9	459.3	450.7	448.5	432.2	410.3	399.5	391.0	374.2	361.7
155°	445.6	451.3	445.6	439.9	438.5	425.5	408.1	399.5	393.0	380.2	370.6
157.5°	434.8	438.8	434.8	430.8	429.8	419.7	406.2	399.5	395.1	386.2	379.6
160°	428.3	430.6	428.3	426.1	425.5	416.8	405.2	399.5	395.9	388.9	383.6
162.5°	424.1	426.3	424.1	421.9	421.4	414.1	404.4	399.5	396.9	391.8	388.0
165°	418.1	420.4	418.1	415.8	415.2	409.9	403.0	399.5	398.3	396.0	394.3
167.5°	413.7	414.6	413.7	412.7	412.5	409.0	404.5	402.2	401.2	399.3	397.8
170°	412.5	412.5	412.5	412.5	412.5	409.0	404.5	402.2	402.1	402.0	401.9
172.5°	409.2	408.4	409.2	410.1	410.3	407.5	403.9	402.2	402.2	402.2	402.2
175°	407.3	407.3	407.3	407.3	407.3	405.6	403.3	402.2	402.7	403.8	404.6
177.5°	405.6	404.6	405.6	406.5	406.7	405.4	403.6	402.7	403.1	404.0	404.6
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934461

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7
2.5°	1865.9	1855.4	1855.4	1837.9	1831.0	1825.8	1817.1	1790.9	1784.0	1777.1	1787.5
5°	1881.5	1862.3	1848.4	1817.1	1790.9	1780.6	1747.5	1684.8	1643.0	1611.7	1594.3
7.5°	1885.0	1860.6	1834.5	1785.8	1723.1	1695.2	1594.3	1479.4	1448.1	1420.2	1402.8
10°	1881.5	1853.7	1817.1	1744.0	1596.0	1547.3	1446.4	1371.6	1352.4	1347.1	1352.4
12.5°	1869.3	1843.2	1792.7	1670.9	1463.8	1430.7	1371.6	1328.0	1324.6	1333.3	1380.3
15°	1848.4	1824.1	1764.9	1573.4	1390.7	1366.3	1324.6	1308.8	1328.0	1388.9	1529.9
17.5°	1827.6	1799.6	1726.6	1477.7	1334.9	1317.5	1287.9	1319.3	1427.2	1509.0	1556.0
20°	1799.6	1766.6	1683.1	1408.1	1295.0	1279.2	1265.4	1406.3	1488.1	1517.7	1543.8
22.5°	1766.6	1731.8	1623.9	1359.3	1253.2	1241.0	1249.6	1455.1	1488.1	1509.0	1531.7
25°	1723.1	1693.5	1554.2	1321.1	1220.1	1206.2	1239.3	1449.8	1469.0	1474.2	1519.5
27.5°	1683.1	1644.8	1481.2	1286.3	1180.1	1174.8	1248.0	1427.2	1441.1	1446.4	1495.1
30°	1634.3	1576.9	1399.4	1249.6	1138.3	1136.5	1249.6	1399.4	1395.9	1409.8	1458.5
32.5°	1583.8	1476.0	1307.1	1204.4	1098.2	1096.6	1237.5	1357.6	1354.1	1373.2	1409.8
35°	1536.9	1397.6	1181.8	1152.2	1047.8	1049.5	1207.9	1308.8	1310.6	1328.0	1350.7
37.5°	1488.1	1329.7	1044.3	1094.8	999.1	999.1	1167.9	1263.6	1260.1	1265.4	1296.6
40°	1430.7	1223.6	922.5	1020.0	953.8	948.6	1119.1	1214.9	1202.7	1201.0	1244.5
42.5°	1369.8	1106.9	831.9	920.7	901.6	894.6	1059.9	1155.7	1133.1	1138.3	1194.0
45°	1303.7	1075.7	762.4	778.0	847.6	842.4	995.6	1087.8	1072.1	1086.1	1143.5
47.5°	1237.5	1012.9	739.7	645.7	790.2	788.5	924.2	1021.6	1012.9	1026.9	1087.8
50°	1147.0	943.4	737.9	553.5	725.8	732.8	839.0	957.3	957.3	969.5	1033.8
52.5°	1030.3	858.1	670.1	501.2	650.9	671.8	764.1	901.6	905.1	917.2	974.7
55°	924.2	769.3	621.4	461.2	562.2	607.4	691.0	844.1	851.1	863.3	915.5
57.5°	826.7	640.5	610.9	414.2	480.3	523.9	626.6	788.5	792.0	802.4	852.8
60°	722.3	463.0	560.4	363.8	409.0	442.0	567.4	722.3	734.5	741.5	784.9
62.5°	603.9	336.0	508.2	328.9	374.2	381.2	518.6	659.7	675.3	680.5	706.7
65°	429.9	281.9	431.7	299.3	337.6	339.4	466.5	595.2	609.2	617.9	637.0
67.5°	290.6	229.8	328.9	271.5	309.8	311.5	416.0	520.4	539.5	546.5	558.7
70°	201.9	153.2	243.6	242.0	278.5	281.9	362.0	452.5	470.0	475.2	482.1
72.5°	147.9	123.6	201.9	217.6	245.4	248.9	306.4	375.9	393.4	398.6	402.1
75°	113.1	130.5	163.6	189.7	208.9	210.6	250.7	306.4	318.5	322.0	323.7
77.5°	90.5	121.8	120.1	153.2	170.6	167.1	196.7	236.7	247.2	247.2	247.2
80°	67.9	95.7	90.5	109.6	125.3	121.8	141.0	168.8	172.3	175.7	174.1
82.5°	50.5	61.0	61.0	69.6	83.5	80.1	94.0	109.6	109.6	109.6	113.1
85°	31.4	34.8	27.8	36.5	47.0	45.2	52.3	59.2	61.0	61.0	57.4
87.5°	19.1	15.6	8.7	14.0	20.9	20.9	24.3	26.1	24.3	24.3	24.3
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.7
92.5°	47.8	29.3	10.9	29.3	47.8	52.4	73.7	102.1	116.2	101.8	73.1
95°	93.6	59.8	26.1	59.8	93.6	102.1	181.3	286.9	339.7	303.2	230.0
97.5°	104.7	74.9	45.1	74.9	104.7	112.2	244.3	420.4	508.4	485.3	439.0
100°	113.8	86.8	59.7	86.8	113.8	120.6	267.1	462.5	560.2	561.8	565.3
102.5°	122.7	97.5	72.2	97.5	122.7	129.0	277.6	475.8	574.8	604.3	663.2
105°	136.1	114.8	93.5	114.8	136.1	141.5	285.4	477.3	573.2	639.2	771.2
107.5°	154.9	135.1	115.1	135.1	154.9	159.9	286.9	456.0	540.6	632.6	816.8
110°	165.7	147.7	129.8	147.7	165.7	170.2	284.7	437.2	513.5	616.4	822.4



TEST NUMBER: P934461

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	178.5	161.3	144.2	161.3	178.5	182.8	284.7	420.8	488.8	594.2	804.9
115°	197.5	181.7	165.9	181.7	197.5	201.5	287.4	401.9	459.2	560.7	763.7
117.5°	216.1	201.7	187.3	201.7	216.1	219.7	292.7	390.1	438.8	530.4	713.6
120°	226.9	213.3	199.8	213.3	226.9	230.3	297.0	386.1	430.6	514.3	681.7
122.5°	239.3	225.7	212.1	225.7	239.3	242.8	303.3	384.0	424.4	499.8	650.6
125°	255.7	243.2	230.8	243.2	255.7	258.7	311.7	382.3	417.6	481.7	609.7
127.5°	271.1	258.6	246.0	258.6	271.1	274.3	320.1	381.4	411.9	466.9	576.8
130°	281.2	267.7	254.2	267.7	281.2	284.6	326.3	381.9	409.7	458.6	556.6
132.5°	289.7	276.1	262.6	276.1	289.7	293.0	331.3	382.3	407.9	451.7	539.3
135°	299.7	287.4	275.1	287.4	299.7	302.8	336.7	382.0	404.6	441.3	514.7
137.5°	312.1	300.0	287.8	300.0	312.1	315.2	344.8	384.3	404.0	435.0	497.0
140°	320.8	309.7	298.4	309.7	320.8	323.7	349.8	384.7	402.2	429.0	482.5
142.5°	327.3	316.9	306.5	316.9	327.3	329.9	354.0	386.1	402.2	425.7	472.7
145°	337.2	328.1	319.1	328.1	337.2	339.5	359.5	386.1	399.5	418.7	457.2
147.5°	349.2	340.3	331.6	340.3	349.2	351.4	367.4	388.7	399.5	414.6	444.9
150°	355.6	347.7	339.7	347.7	355.6	357.6	371.6	390.1	399.5	412.3	437.8
152.5°	360.2	354.1	348.1	354.1	360.2	361.7	374.2	391.0	399.5	410.3	432.2
155°	369.5	365.1	360.6	365.1	369.5	370.6	380.2	393.0	399.5	408.1	425.5
157.5°	378.5	374.2	369.9	374.2	378.5	379.6	386.2	395.1	399.5	406.2	419.7
160°	382.8	379.4	376.1	379.4	382.8	383.6	388.9	395.9	399.5	405.2	416.8
162.5°	387.4	384.9	382.3	384.9	387.4	388.0	391.8	396.9	399.5	404.4	414.1
165°	393.7	391.4	389.1	391.4	393.7	394.3	396.0	398.3	399.5	403.0	409.9
167.5°	397.5	396.4	395.3	396.4	397.5	397.8	399.3	401.2	402.2	404.5	409.0
170°	401.6	400.5	399.5	400.5	401.6	401.9	402.0	402.1	402.2	404.5	409.0
172.5°	402.1	401.9	401.6	401.9	402.1	402.2	402.2	402.2	402.2	403.9	407.5
175°	404.6	404.6	404.6	404.6	404.6	404.6	403.8	402.7	402.2	403.3	405.6
177.5°	404.6	404.6	404.6	404.6	404.6	404.6	404.0	403.1	402.7	403.6	405.4
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934461

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7
2.5°	1775.3	1770.1	1777.1	1757.9	1777.1	1770.1	1775.3	1787.5	1777.1	1784.0	1790.9
5°	1557.8	1549.1	1521.2	1498.6	1521.2	1549.1	1557.8	1594.3	1611.7	1643.0	1684.8
7.5°	1392.4	1385.4	1378.5	1364.5	1378.5	1385.4	1392.4	1402.8	1420.2	1448.1	1479.4
10°	1355.8	1357.6	1368.0	1366.3	1368.0	1357.6	1355.8	1352.4	1347.1	1352.4	1371.6
12.5°	1449.8	1465.5	1523.0	1519.5	1523.0	1465.5	1449.8	1380.3	1333.3	1324.6	1328.0
15°	1557.8	1562.9	1575.1	1576.9	1575.1	1562.9	1557.8	1529.9	1388.9	1328.0	1308.8
17.5°	1568.2	1570.0	1578.7	1578.7	1578.7	1570.0	1568.2	1556.0	1509.0	1427.2	1319.3
20°	1559.5	1562.9	1580.4	1583.8	1580.4	1562.9	1559.5	1543.8	1517.7	1488.1	1406.3
22.5°	1556.0	1562.9	1576.9	1575.1	1576.9	1562.9	1556.0	1531.7	1509.0	1488.1	1455.1
25°	1538.6	1538.6	1540.4	1542.1	1540.4	1538.6	1538.6	1519.5	1474.2	1469.0	1449.8
27.5°	1502.1	1505.5	1515.9	1514.3	1515.9	1505.5	1502.1	1495.1	1446.4	1441.1	1427.2
30°	1469.0	1465.5	1456.8	1449.8	1456.8	1465.5	1469.0	1458.5	1409.8	1395.9	1399.4
32.5°	1413.3	1404.6	1395.9	1390.7	1395.9	1404.6	1413.3	1409.8	1373.2	1354.1	1357.6
35°	1347.1	1348.9	1347.1	1342.0	1347.1	1348.9	1347.1	1350.7	1328.0	1310.6	1308.8
37.5°	1300.1	1303.7	1301.9	1295.0	1301.9	1303.7	1300.1	1296.6	1265.4	1260.1	1263.6
40°	1251.4	1253.2	1251.4	1246.2	1251.4	1253.2	1251.4	1244.5	1201.0	1202.7	1214.9
42.5°	1204.4	1202.7	1197.5	1194.0	1197.5	1202.7	1204.4	1194.0	1138.3	1133.1	1155.7
45°	1150.5	1152.2	1141.8	1136.5	1141.8	1152.2	1150.5	1143.5	1086.1	1072.1	1087.8
47.5°	1096.6	1096.6	1087.8	1082.6	1087.8	1096.6	1096.6	1087.8	1026.9	1012.9	1021.6
50°	1039.1	1037.4	1025.2	1023.4	1025.2	1037.4	1039.1	1033.8	969.5	957.3	957.3
52.5°	973.0	973.0	974.7	978.2	974.7	973.0	973.0	974.7	917.2	905.1	901.6
55°	915.5	917.2	929.4	932.9	929.4	917.2	915.5	915.5	863.3	851.1	844.1
57.5°	856.3	856.3	865.0	865.0	865.0	856.3	856.3	852.8	802.4	792.0	788.5
60°	788.5	792.0	798.9	797.1	798.9	792.0	788.5	784.9	741.5	734.5	722.3
62.5°	717.0	720.6	722.3	718.8	722.3	720.6	717.0	706.7	680.5	675.3	659.7
65°	642.2	645.7	647.5	644.0	647.5	645.7	642.2	637.0	617.9	609.2	595.2
67.5°	565.6	564.0	562.2	569.1	562.2	564.0	565.6	558.7	546.5	539.5	520.4
70°	487.4	487.4	485.6	489.0	485.6	487.4	487.4	482.1	475.2	470.0	452.5
72.5°	403.8	402.1	409.0	403.8	409.0	402.1	403.8	402.1	398.6	393.4	375.9
75°	322.0	325.5	322.0	327.3	322.0	325.5	322.0	323.7	322.0	318.5	306.4
77.5°	245.4	248.9	245.4	245.4	245.4	248.9	245.4	247.2	247.2	247.2	236.7
80°	174.1	172.3	172.3	170.6	172.3	172.3	174.1	174.1	175.7	172.3	168.8
82.5°	111.4	109.6	109.6	113.1	109.6	109.6	111.4	113.1	109.6	109.6	109.6
85°	61.0	62.6	59.2	59.2	59.2	62.6	61.0	57.4	61.0	61.0	59.2
87.5°	22.7	20.9	20.9	20.9	20.9	20.9	22.7	24.3	24.3	24.3	26.1
90°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.7	18.4	20.6	17.7
92.5°	51.6	49.5	41.3	33.1	41.3	49.5	51.6	73.1	101.8	116.2	102.1
95°	175.1	168.9	144.0	119.2	144.0	168.9	175.1	230.0	303.2	339.7	286.9
97.5°	404.3	392.4	345.2	297.9	345.2	392.4	404.3	439.0	485.3	508.4	420.4
100°	567.8	553.8	497.4	441.0	497.4	553.8	567.8	565.3	561.8	560.2	462.5
102.5°	707.4	695.4	647.0	598.7	647.0	695.4	707.4	663.2	604.3	574.8	475.8
105°	870.3	863.8	837.9	811.9	837.9	863.8	870.3	771.2	639.2	573.2	477.3
107.5°	955.0	956.6	962.8	969.1	962.8	956.6	955.0	816.8	632.6	540.6	456.0
110°	976.8	983.5	1010.5	1037.5	1010.5	983.5	976.8	822.4	616.4	513.5	437.2



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CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	962.9	973.2	1014.8	1056.2	1014.8	973.2	962.9	804.9	594.2	488.8	420.8
115°	915.9	930.3	987.8	1045.4	987.8	930.3	915.9	763.7	560.7	459.2	401.9
117.5°	851.0	867.0	930.8	994.7	930.8	867.0	851.0	713.6	530.4	438.8	390.1
120°	807.2	822.8	884.8	946.9	884.8	822.8	807.2	681.7	514.3	430.6	386.1
122.5°	763.6	778.9	840.1	901.2	840.1	778.9	763.6	650.6	499.8	424.4	384.0
125°	705.7	719.8	776.2	832.5	776.2	719.8	705.7	609.7	481.7	417.6	382.3
127.5°	659.3	671.1	718.7	766.3	718.7	671.1	659.3	576.8	466.9	411.9	381.4
130°	630.0	641.0	684.9	728.8	684.9	641.0	630.0	556.6	458.6	409.7	381.9
132.5°	605.0	614.8	654.2	693.5	654.2	614.8	605.0	539.3	451.7	407.9	382.3
135°	569.7	578.2	612.1	646.0	612.1	578.2	569.7	514.7	441.3	404.6	382.0
137.5°	543.6	550.5	578.4	606.1	578.4	550.5	543.6	497.0	435.0	404.0	384.3
140°	522.7	529.2	555.1	581.1	555.1	529.2	522.7	482.5	429.0	402.2	384.7
142.5°	508.0	513.6	535.9	558.2	535.9	513.6	508.0	472.7	425.7	402.2	386.1
145°	486.1	490.3	507.2	524.1	507.2	490.3	486.1	457.2	418.7	399.5	386.1
147.5°	467.6	471.1	485.1	499.1	485.1	471.1	467.6	444.9	414.6	399.5	388.7
150°	457.0	459.8	471.2	482.5	471.2	459.8	457.0	437.8	412.3	399.5	390.1
152.5°	448.5	450.7	459.3	467.9	459.3	450.7	448.5	432.2	410.3	399.5	391.0
155°	438.5	439.9	445.6	451.3	445.6	439.9	438.5	425.5	408.1	399.5	393.0
157.5°	429.8	430.8	434.8	438.8	434.8	430.8	429.8	419.7	406.2	399.5	395.1
160°	425.5	426.1	428.3	430.6	428.3	426.1	425.5	416.8	405.2	399.5	395.9
162.5°	421.4	421.9	424.1	426.3	424.1	421.9	421.4	414.1	404.4	399.5	396.9
165°	415.2	415.8	418.1	420.4	418.1	415.8	415.2	409.9	403.0	399.5	398.3
167.5°	412.5	412.7	413.7	414.6	413.7	412.7	412.5	409.0	404.5	402.2	401.2
170°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	409.0	404.5	402.2	402.1
172.5°	410.3	410.1	409.2	408.4	409.2	410.1	410.3	407.5	403.9	402.2	402.2
175°	407.3	407.3	407.3	407.3	407.3	407.3	407.3	405.6	403.3	402.2	402.7
177.5°	406.7	406.5	405.6	404.6	405.6	406.5	406.7	405.4	403.6	402.7	403.1
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1839.7	1839.7	1839.7	1839.7	1839.7
2.5°	1817.1	1825.8	1831.0	1837.9	1855.4
5°	1747.5	1780.6	1790.9	1817.1	1848.4
7.5°	1594.3	1695.2	1723.1	1785.8	1834.5
10°	1446.4	1547.3	1596.0	1744.0	1817.1
12.5°	1371.6	1430.7	1463.8	1670.9	1792.7
15°	1324.6	1366.3	1390.7	1573.4	1764.9
17.5°	1287.9	1317.5	1334.9	1477.7	1726.6
20°	1265.4	1279.2	1295.0	1408.1	1683.1
22.5°	1249.6	1241.0	1253.2	1359.3	1623.9
25°	1239.3	1206.2	1220.1	1321.1	1554.2
27.5°	1248.0	1174.8	1180.1	1286.3	1481.2
30°	1249.6	1136.5	1138.3	1249.6	1399.4
32.5°	1237.5	1096.6	1098.2	1204.4	1307.1
35°	1207.9	1049.5	1047.8	1152.2	1181.8
37.5°	1167.9	999.1	999.1	1094.8	1044.3
40°	1119.1	948.6	953.8	1020.0	922.5
42.5°	1059.9	894.6	901.6	920.7	831.9
45°	995.6	842.4	847.6	778.0	762.4
47.5°	924.2	788.5	790.2	645.7	739.7
50°	839.0	732.8	725.8	553.5	737.9
52.5°	764.1	671.8	650.9	501.2	670.1
55°	691.0	607.4	562.2	461.2	621.4
57.5°	626.6	523.9	480.3	414.2	610.9
60°	567.4	442.0	409.0	363.8	560.4
62.5°	518.6	381.2	374.2	328.9	508.2
65°	466.5	339.4	337.6	299.3	431.7
67.5°	416.0	311.5	309.8	271.5	328.9
70°	362.0	281.9	278.5	242.0	243.6
72.5°	306.4	248.9	245.4	217.6	201.9
75°	250.7	210.6	208.9	189.7	163.6
77.5°	196.7	167.1	170.6	153.2	120.1
80°	141.0	121.8	125.3	109.6	90.5
82.5°	94.0	80.1	83.5	69.6	61.0
85°	52.3	45.2	47.0	36.5	27.8
87.5°	24.3	20.9	20.9	14.0	8.7
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.7	52.4	47.8	29.3	10.9
95°	181.3	102.1	93.6	59.8	26.1
97.5°	244.3	112.2	104.7	74.9	45.1
100°	267.1	120.6	113.8	86.8	59.7
102.5°	277.6	129.0	122.7	97.5	72.2
105°	285.4	141.5	136.1	114.8	93.5
107.5°	286.9	159.9	154.9	135.1	115.1
110°	284.7	170.2	165.7	147.7	129.8



TEST NUMBER: P934461

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	284.7	182.8	178.5	161.3	144.2
115°	287.4	201.5	197.5	181.7	165.9
117.5°	292.7	219.7	216.1	201.7	187.3
120°	297.0	230.3	226.9	213.3	199.8
122.5°	303.3	242.8	239.3	225.7	212.1
125°	311.7	258.7	255.7	243.2	230.8
127.5°	320.1	274.3	271.1	258.6	246.0
130°	326.3	284.6	281.2	267.7	254.2
132.5°	331.3	293.0	289.7	276.1	262.6
135°	336.7	302.8	299.7	287.4	275.1
137.5°	344.8	315.2	312.1	300.0	287.8
140°	349.8	323.7	320.8	309.7	298.4
142.5°	354.0	329.9	327.3	316.9	306.5
145°	359.5	339.5	337.2	328.1	319.1
147.5°	367.4	351.4	349.2	340.3	331.6
150°	371.6	357.6	355.6	347.7	339.7
152.5°	374.2	361.7	360.2	354.1	348.1
155°	380.2	370.6	369.5	365.1	360.6
157.5°	386.2	379.6	378.5	374.2	369.9
160°	388.9	383.6	382.8	379.4	376.1
162.5°	391.8	388.0	387.4	384.9	382.3
165°	396.0	394.3	393.7	391.4	389.1
167.5°	399.3	397.8	397.5	396.4	395.3
170°	402.0	401.9	401.6	400.5	399.5
172.5°	402.2	402.2	402.1	401.9	401.6
175°	403.8	404.6	404.6	404.6	404.6
177.5°	404.0	404.6	404.6	404.6	404.6
180°	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934461
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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	14.49	15.50	15.32	16.35	17.39	17.32	18.33	18.14	19.17	20.22
	3H	14.98	15.89	15.82	16.74	17.82	18.67	19.58	19.51	20.43	21.51
	4H	15.18	16.04	16.03	16.90	17.98	19.12	19.98	19.98	20.84	21.93
	6H	15.31	16.10	16.17	16.96	18.06	19.42	20.20	20.28	21.07	22.17
	8H	15.31	16.06	16.19	16.95	18.05	19.49	20.24	20.37	21.13	22.23
	12H	15.29	16.00	16.17	16.88	18.01	19.54	20.25	20.41	21.13	22.26
4H	2H	15.54	16.40	16.40	17.26	18.35	17.75	18.60	18.60	19.46	20.55
	3H	16.58	17.30	17.45	18.19	19.29	19.26	19.98	20.13	20.87	21.97
	4H	16.87	17.52	17.75	18.41	19.53	19.80	20.45	20.68	21.34	22.46
	6H	17.00	17.56	17.90	18.48	19.61	20.17	20.73	21.07	21.64	22.78
	8H	17.01	17.53	17.91	18.44	19.59	20.28	20.80	21.18	21.71	22.86
	12H	16.98	17.46	17.90	18.38	19.53	20.34	20.81	21.26	21.74	22.89
8H	4H	17.33	17.85	18.23	18.76	19.91	19.93	20.46	20.83	21.37	22.51
	6H	17.60	18.03	18.52	18.98	20.13	20.38	20.81	21.30	21.76	22.90
	8H	17.64	18.03	18.58	18.97	20.13	20.53	20.91	21.46	21.85	23.01
	12H	17.63	17.97	18.57	18.91	20.12	20.63	20.97	21.57	21.90	23.12
12H	4H	17.34	17.82	18.26	18.74	19.89	19.91	20.38	20.82	21.30	22.45
	6H	17.66	18.05	18.60	18.99	20.15	20.37	20.76	21.31	21.70	22.86
	8H	17.73	18.07	18.67	19.01	20.22	20.54	20.88	21.48	21.81	23.03