

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: P934061

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934061
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-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: -

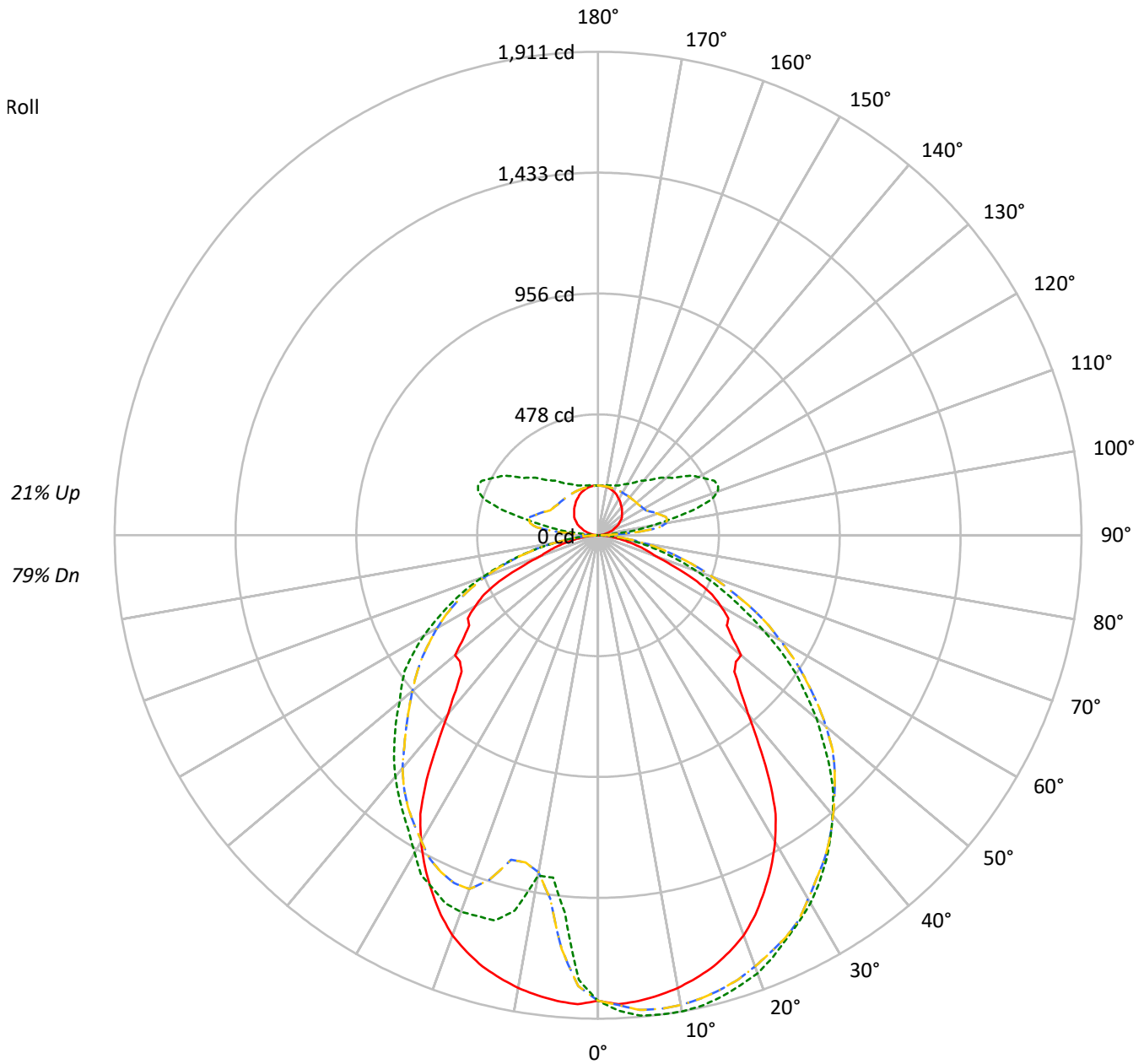
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6045.3 lumens
Efficiency: N/A
Efficacy: 103.9 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): 58.2
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



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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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	0
RCR																					
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

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	2.7
10°-20°	471.5	7.8
20°-30°	728.9	12.1
30°-40°	870.1	14.4
40°-50°	875.2	14.5
50°-60°	761.5	12.6
60°-70°	539.9	8.9
70°-80°	285.7	4.7
80°-90°	71.9	1.2
90°-100°	95.8	1.6
100°-110°	252.0	4.2
110°-120°	261.2	4.3
120°-130°	209.6	3.5
130°-140°	164.4	2.7
140°-150°	126.2	2.1
150°-160°	90.9	1.5
160°-170°	55.6	0.9
170°-180°	18.8	0.3
0°-30°	1366.4	22.6
0°-40°	2236.5	37.0
0°-60°	3873.3	64.1
0°-90°	4770.8	78.9
90°-120°	609.0	10.1
90°-150°	1109.2	18.3
90°-180°	1275.0	21.1
0°-180°	6045.3	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°	1	5	1	5	1	2
95°	13	58	13	58	13	14
105°	45	394	45	394	45	48
115°	81	508	81	508	81	80
125°	112	404	112	404	112	100
135°	134	314	134	314	134	103
145°	155	255	155	255	155	97
155°	175	219	175	219	175	81
165°	189	204	189	204	189	53
175°	197	198	197	198	197	19
180°	197	197	197	197	197	



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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°	1.3	2.4	3.4	3.7	5.8	8.6	10.0	8.9	6.7	5.0	5.0
92.5°	5.3	14.2	23.2	25.5	35.8	49.6	56.5	49.4	35.5	25.0	24.1
95°	12.6	29.1	45.5	49.6	88.1	139.4	165.0	147.3	111.7	85.1	82.1
97.5°	21.9	36.4	50.9	54.5	118.7	204.2	247.0	235.7	213.3	196.5	190.8
100°	29.1	42.2	55.3	58.6	129.8	224.8	272.2	273.0	274.6	275.9	269.0
102.5°	35.1	47.4	59.6	62.7	134.9	231.2	279.3	293.6	322.2	343.8	337.9
105°	45.4	55.8	66.1	68.8	138.7	231.9	278.5	310.6	374.8	422.9	419.7
107.5°	55.9	65.6	75.3	77.7	139.4	221.6	262.7	307.5	397.0	464.1	464.9
110°	63.1	71.8	80.5	82.7	138.3	212.5	249.5	299.6	399.6	474.6	477.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	70.1	78.4	86.7	88.8	138.3	204.5	237.5	288.7	391.1	467.9	472.9
115°	80.6	88.4	96.0	97.9	139.6	195.2	223.1	272.4	371.1	445.0	452.1
117.5°	91.1	98.0	105.0	106.7	142.2	189.5	213.3	257.8	346.8	413.5	421.2
120°	97.1	103.7	110.2	111.9	144.4	187.7	209.3	250.0	331.3	392.3	399.9
122.5°	103.0	109.7	116.3	118.0	147.4	186.6	206.2	242.9	316.1	371.1	378.5
125°	112.2	118.2	124.3	125.8	151.5	185.8	203.0	234.1	296.3	343.0	349.8
127.5°	119.5	125.6	131.7	133.2	155.5	185.3	200.2	226.9	280.4	320.4	326.2
130°	123.5	130.1	136.6	138.2	158.5	185.6	199.1	222.9	270.4	306.1	311.4
132.5°	127.6	134.2	140.7	142.4	161.0	185.8	198.2	219.5	262.1	294.0	298.7
135°	133.7	139.6	145.6	147.1	163.6	185.7	196.7	214.5	250.1	276.8	281.0
137.5°	139.9	145.8	151.7	153.2	167.6	186.8	196.4	211.5	241.6	264.2	267.5
140°	145.0	150.5	155.9	157.3	170.0	187.0	195.4	208.4	234.5	254.0	257.2
142.5°	149.0	154.0	159.1	160.3	172.0	187.6	195.4	206.8	229.8	246.9	249.6
145°	155.0	159.4	163.8	164.9	174.7	187.6	194.1	203.4	222.1	236.2	238.2
147.5°	161.1	165.4	169.7	170.7	178.6	188.9	194.1	201.5	216.1	227.2	228.9
150°	165.0	168.9	172.8	173.8	180.6	189.6	194.1	200.3	212.7	222.0	223.4
152.5°	169.2	172.1	175.0	175.7	181.9	190.1	194.1	199.4	210.0	218.0	219.0
155°	175.2	177.4	179.6	180.1	184.8	191.0	194.1	198.3	206.8	213.1	213.8
157.5°	179.7	181.8	183.9	184.4	187.7	192.0	194.1	197.4	203.9	208.9	209.4
160°	182.8	184.4	186.0	186.5	189.0	192.4	194.1	196.9	202.5	206.8	207.0
162.5°	185.8	187.0	188.2	188.6	190.4	192.9	194.1	196.5	201.2	204.8	205.1
165°	189.1	190.2	191.3	191.6	192.4	193.6	194.1	195.8	199.2	201.7	202.0
167.5°	192.1	192.6	193.1	193.3	194.0	195.0	195.4	196.6	198.8	200.4	200.5
170°	194.1	194.6	195.2	195.2	195.3	195.4	195.4	196.6	198.8	200.4	200.4
172.5°	195.2	195.2	195.4	195.4	195.4	195.4	195.4	196.3	198.1	199.4	199.3
175°	196.7	196.7	196.7	196.7	196.2	195.7	195.4	195.9	197.1	198.0	198.0
177.5°	196.7	196.7	196.7	196.7	196.3	195.9	195.7	196.1	197.0	197.7	197.6
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



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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°	5.0	5.0	5.0	5.0	5.0	6.7	8.9	10.0	8.6	5.8	3.7
92.5°	20.0	16.1	20.0	24.1	25.0	35.5	49.4	56.5	49.6	35.8	25.5
95°	70.0	58.0	70.0	82.1	85.1	111.7	147.3	165.0	139.4	88.1	49.6
97.5°	167.8	144.7	167.8	190.8	196.5	213.3	235.7	247.0	204.2	118.7	54.5
100°	241.7	214.3	241.7	269.0	275.9	274.6	273.0	272.2	224.8	129.8	58.6
102.5°	314.4	291.0	314.4	337.9	343.8	322.2	293.6	279.3	231.2	134.9	62.7
105°	407.2	394.5	407.2	419.7	422.9	374.8	310.6	278.5	231.9	138.7	68.8
107.5°	467.9	470.9	467.9	464.9	464.1	397.0	307.5	262.7	221.6	139.4	77.7
110°	491.1	504.2	491.1	477.9	474.6	399.6	299.6	249.5	212.5	138.3	82.7



TEST NUMBER: P934061

CATALOG NUMBER: SQ4-FA-025U-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°	493.1	513.3	493.1	472.9	467.9	391.1	288.7	237.5	204.5	138.3	88.8
115°	480.0	508.0	480.0	452.1	445.0	371.1	272.4	223.1	195.2	139.6	97.9
117.5°	452.3	483.3	452.3	421.2	413.5	346.8	257.8	213.3	189.5	142.2	106.7
120°	430.0	460.1	430.0	399.9	392.3	331.3	250.0	209.3	187.7	144.4	111.9
122.5°	408.2	437.9	408.2	378.5	371.1	316.1	242.9	206.2	186.6	147.4	118.0
125°	377.1	404.5	377.1	349.8	343.0	296.3	234.1	203.0	185.8	151.5	125.8
127.5°	349.3	372.4	349.3	326.2	320.4	280.4	226.9	200.2	185.3	155.5	133.2
130°	332.8	354.1	332.8	311.4	306.1	270.4	222.9	199.1	185.6	158.5	138.2
132.5°	317.9	337.0	317.9	298.7	294.0	262.1	219.5	198.2	185.8	161.0	142.4
135°	297.4	313.9	297.4	281.0	276.8	250.1	214.5	196.7	185.7	163.6	147.1
137.5°	281.1	294.5	281.1	267.5	264.2	241.6	211.5	196.4	186.8	167.6	153.2
140°	269.7	282.4	269.7	257.2	254.0	234.5	208.4	195.4	187.0	170.0	157.3
142.5°	260.4	271.3	260.4	249.6	246.9	229.8	206.8	195.4	187.6	172.0	160.3
145°	246.5	254.7	246.5	238.2	236.2	222.1	203.4	194.1	187.6	174.7	164.9
147.5°	235.7	242.5	235.7	228.9	227.2	216.1	201.5	194.1	188.9	178.6	170.7
150°	229.0	234.5	229.0	223.4	222.0	212.7	200.3	194.1	189.6	180.6	173.8
152.5°	223.2	227.4	223.2	219.0	218.0	210.0	199.4	194.1	190.1	181.9	175.7
155°	216.5	219.3	216.5	213.8	213.1	206.8	198.3	194.1	191.0	184.8	180.1
157.5°	211.3	213.3	211.3	209.4	208.9	203.9	197.4	194.1	192.0	187.7	184.4
160°	208.2	209.3	208.2	207.0	206.8	202.5	196.9	194.1	192.4	189.0	186.5
162.5°	206.1	207.2	206.1	205.1	204.8	201.2	196.5	194.1	192.9	190.4	188.6
165°	203.2	204.3	203.2	202.0	201.7	199.2	195.8	194.1	193.6	192.4	191.6
167.5°	201.0	201.5	201.0	200.5	200.4	198.8	196.6	195.4	195.0	194.0	193.3
170°	200.4	200.4	200.4	200.4	200.4	198.8	196.6	195.4	195.4	195.3	195.2
172.5°	198.8	198.5	198.8	199.3	199.4	198.1	196.3	195.4	195.4	195.4	195.4
175°	198.0	198.0	198.0	198.0	198.0	197.1	195.9	195.4	195.7	196.2	196.7
177.5°	197.1	196.7	197.1	197.6	197.7	197.0	196.1	195.7	195.9	196.3	196.7
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



TEST NUMBER: P934061

CATALOG NUMBER: SQ4-FA-025U-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°	3.4	2.4	1.3	2.4	3.4	3.7	5.8	8.6	10.0	8.9	6.7
92.5°	23.2	14.2	5.3	14.2	23.2	25.5	35.8	49.6	56.5	49.4	35.5
95°	45.5	29.1	12.6	29.1	45.5	49.6	88.1	139.4	165.0	147.3	111.7
97.5°	50.9	36.4	21.9	36.4	50.9	54.5	118.7	204.2	247.0	235.7	213.3
100°	55.3	42.2	29.1	42.2	55.3	58.6	129.8	224.8	272.2	273.0	274.6
102.5°	59.6	47.4	35.1	47.4	59.6	62.7	134.9	231.2	279.3	293.6	322.2
105°	66.1	55.8	45.4	55.8	66.1	68.8	138.7	231.9	278.5	310.6	374.8
107.5°	75.3	65.6	55.9	65.6	75.3	77.7	139.4	221.6	262.7	307.5	397.0
110°	80.5	71.8	63.1	71.8	80.5	82.7	138.3	212.5	249.5	299.6	399.6



TEST NUMBER: P934061

CATALOG NUMBER: SQ4-FA-025U-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°	86.7	78.4	70.1	78.4	86.7	88.8	138.3	204.5	237.5	288.7	391.1
115°	96.0	88.4	80.6	88.4	96.0	97.9	139.6	195.2	223.1	272.4	371.1
117.5°	105.0	98.0	91.1	98.0	105.0	106.7	142.2	189.5	213.3	257.8	346.8
120°	110.2	103.7	97.1	103.7	110.2	111.9	144.4	187.7	209.3	250.0	331.3
122.5°	116.3	109.7	103.0	109.7	116.3	118.0	147.4	186.6	206.2	242.9	316.1
125°	124.3	118.2	112.2	118.2	124.3	125.8	151.5	185.8	203.0	234.1	296.3
127.5°	131.7	125.6	119.5	125.6	131.7	133.2	155.5	185.3	200.2	226.9	280.4
130°	136.6	130.1	123.5	130.1	136.6	138.2	158.5	185.6	199.1	222.9	270.4
132.5°	140.7	134.2	127.6	134.2	140.7	142.4	161.0	185.8	198.2	219.5	262.1
135°	145.6	139.6	133.7	139.6	145.6	147.1	163.6	185.7	196.7	214.5	250.1
137.5°	151.7	145.8	139.9	145.8	151.7	153.2	167.6	186.8	196.4	211.5	241.6
140°	155.9	150.5	145.0	150.5	155.9	157.3	170.0	187.0	195.4	208.4	234.5
142.5°	159.1	154.0	149.0	154.0	159.1	160.3	172.0	187.6	195.4	206.8	229.8
145°	163.8	159.4	155.0	159.4	163.8	164.9	174.7	187.6	194.1	203.4	222.1
147.5°	169.7	165.4	161.1	165.4	169.7	170.7	178.6	188.9	194.1	201.5	216.1
150°	172.8	168.9	165.0	168.9	172.8	173.8	180.6	189.6	194.1	200.3	212.7
152.5°	175.0	172.1	169.2	172.1	175.0	175.7	181.9	190.1	194.1	199.4	210.0
155°	179.6	177.4	175.2	177.4	179.6	180.1	184.8	191.0	194.1	198.3	206.8
157.5°	183.9	181.8	179.7	181.8	183.9	184.4	187.7	192.0	194.1	197.4	203.9
160°	186.0	184.4	182.8	184.4	186.0	186.5	189.0	192.4	194.1	196.9	202.5
162.5°	188.2	187.0	185.8	187.0	188.2	188.6	190.4	192.9	194.1	196.5	201.2
165°	191.3	190.2	189.1	190.2	191.3	191.6	192.4	193.6	194.1	195.8	199.2
167.5°	193.1	192.6	192.1	192.6	193.1	193.3	194.0	195.0	195.4	196.6	198.8
170°	195.2	194.6	194.1	194.6	195.2	195.2	195.3	195.4	195.4	196.6	198.8
172.5°	195.4	195.2	195.2	195.2	195.4	195.4	195.4	195.4	195.4	196.3	198.1
175°	196.7	196.7	196.7	196.7	196.7	196.7	196.2	195.7	195.4	195.9	197.1
177.5°	196.7	196.7	196.7	196.7	196.7	196.7	196.3	195.9	195.7	196.1	197.0
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



TEST NUMBER: P934061

CATALOG NUMBER: SQ4-FA-025U-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°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.7	8.9	10.0	8.6
92.5°	25.0	24.1	20.0	16.1	20.0	24.1	25.0	35.5	49.4	56.5	49.6
95°	85.1	82.1	70.0	58.0	70.0	82.1	85.1	111.7	147.3	165.0	139.4
97.5°	196.5	190.8	167.8	144.7	167.8	190.8	196.5	213.3	235.7	247.0	204.2
100°	275.9	269.0	241.7	214.3	241.7	269.0	275.9	274.6	273.0	272.2	224.8
102.5°	343.8	337.9	314.4	291.0	314.4	337.9	343.8	322.2	293.6	279.3	231.2
105°	422.9	419.7	407.2	394.5	407.2	419.7	422.9	374.8	310.6	278.5	231.9
107.5°	464.1	464.9	467.9	470.9	467.9	464.9	464.1	397.0	307.5	262.7	221.6
110°	474.6	477.9	491.1	504.2	491.1	477.9	474.6	399.6	299.6	249.5	212.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	467.9	472.9	493.1	513.3	493.1	472.9	467.9	391.1	288.7	237.5	204.5
115°	445.0	452.1	480.0	508.0	480.0	452.1	445.0	371.1	272.4	223.1	195.2
117.5°	413.5	421.2	452.3	483.3	452.3	421.2	413.5	346.8	257.8	213.3	189.5
120°	392.3	399.9	430.0	460.1	430.0	399.9	392.3	331.3	250.0	209.3	187.7
122.5°	371.1	378.5	408.2	437.9	408.2	378.5	371.1	316.1	242.9	206.2	186.6
125°	343.0	349.8	377.1	404.5	377.1	349.8	343.0	296.3	234.1	203.0	185.8
127.5°	320.4	326.2	349.3	372.4	349.3	326.2	320.4	280.4	226.9	200.2	185.3
130°	306.1	311.4	332.8	354.1	332.8	311.4	306.1	270.4	222.9	199.1	185.6
132.5°	294.0	298.7	317.9	337.0	317.9	298.7	294.0	262.1	219.5	198.2	185.8
135°	276.8	281.0	297.4	313.9	297.4	281.0	276.8	250.1	214.5	196.7	185.7
137.5°	264.2	267.5	281.1	294.5	281.1	267.5	264.2	241.6	211.5	196.4	186.8
140°	254.0	257.2	269.7	282.4	269.7	257.2	254.0	234.5	208.4	195.4	187.0
142.5°	246.9	249.6	260.4	271.3	260.4	249.6	246.9	229.8	206.8	195.4	187.6
145°	236.2	238.2	246.5	254.7	246.5	238.2	236.2	222.1	203.4	194.1	187.6
147.5°	227.2	228.9	235.7	242.5	235.7	228.9	227.2	216.1	201.5	194.1	188.9
150°	222.0	223.4	229.0	234.5	229.0	223.4	222.0	212.7	200.3	194.1	189.6
152.5°	218.0	219.0	223.2	227.4	223.2	219.0	218.0	210.0	199.4	194.1	190.1
155°	213.1	213.8	216.5	219.3	216.5	213.8	213.1	206.8	198.3	194.1	191.0
157.5°	208.9	209.4	211.3	213.3	211.3	209.4	208.9	203.9	197.4	194.1	192.0
160°	206.8	207.0	208.2	209.3	208.2	207.0	206.8	202.5	196.9	194.1	192.4
162.5°	204.8	205.1	206.1	207.2	206.1	205.1	204.8	201.2	196.5	194.1	192.9
165°	201.7	202.0	203.2	204.3	203.2	202.0	201.7	199.2	195.8	194.1	193.6
167.5°	200.4	200.5	201.0	201.5	201.0	200.5	200.4	198.8	196.6	195.4	195.0
170°	200.4	200.4	200.4	200.4	200.4	200.4	200.4	198.8	196.6	195.4	195.4
172.5°	199.4	199.3	198.8	198.5	198.8	199.3	199.4	198.1	196.3	195.4	195.4
175°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	197.1	195.9	195.4	195.7
177.5°	197.7	197.6	197.1	196.7	197.1	197.6	197.7	197.0	196.1	195.7	195.9
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



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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°	5.8	3.7	3.4	2.4	1.3
92.5°	35.8	25.5	23.2	14.2	5.3
95°	88.1	49.6	45.5	29.1	12.6
97.5°	118.7	54.5	50.9	36.4	21.9
100°	129.8	58.6	55.3	42.2	29.1
102.5°	134.9	62.7	59.6	47.4	35.1
105°	138.7	68.8	66.1	55.8	45.4
107.5°	139.4	77.7	75.3	65.6	55.9
110°	138.3	82.7	80.5	71.8	63.1



TEST NUMBER: P934061

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	138.3	88.8	86.7	78.4	70.1
115°	139.6	97.9	96.0	88.4	80.6
117.5°	142.2	106.7	105.0	98.0	91.1
120°	144.4	111.9	110.2	103.7	97.1
122.5°	147.4	118.0	116.3	109.7	103.0
125°	151.5	125.8	124.3	118.2	112.2
127.5°	155.5	133.2	131.7	125.6	119.5
130°	158.5	138.2	136.6	130.1	123.5
132.5°	161.0	142.4	140.7	134.2	127.6
135°	163.6	147.1	145.6	139.6	133.7
137.5°	167.6	153.2	151.7	145.8	139.9
140°	170.0	157.3	155.9	150.5	145.0
142.5°	172.0	160.3	159.1	154.0	149.0
145°	174.7	164.9	163.8	159.4	155.0
147.5°	178.6	170.7	169.7	165.4	161.1
150°	180.6	173.8	172.8	168.9	165.0
152.5°	181.9	175.7	175.0	172.1	169.2
155°	184.8	180.1	179.6	177.4	175.2
157.5°	187.7	184.4	183.9	181.8	179.7
160°	189.0	186.5	186.0	184.4	182.8
162.5°	190.4	188.6	188.2	187.0	185.8
165°	192.4	191.6	191.3	190.2	189.1
167.5°	194.0	193.3	193.1	192.6	192.1
170°	195.3	195.2	195.2	194.6	194.1
172.5°	195.4	195.4	195.4	195.2	195.2
175°	196.2	196.7	196.7	196.7	196.7
177.5°	196.3	196.7	196.7	196.7	196.7
180°	196.7	196.7	196.7	196.7	196.7



TEST NUMBER: P934061
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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	15.59	16.78	16.25	17.46	18.25	18.41	19.61	19.07	20.29	21.08
	3H	16.09	17.17	16.76	17.85	18.68	19.78	20.86	20.46	21.55	22.37
	4H	16.29	17.31	16.99	18.01	18.84	20.24	21.25	20.93	21.95	22.79
	6H	16.43	17.37	17.14	18.08	18.93	20.54	21.48	21.25	22.19	23.04
	8H	16.44	17.34	17.16	18.07	18.92	20.62	21.52	21.34	22.25	23.10
	12H	16.42	17.28	17.15	18.00	18.88	20.67	21.52	21.40	22.25	23.13
4H	2H	16.66	17.67	17.36	18.37	19.21	18.86	19.88	19.56	20.58	21.41
	3H	17.72	18.56	18.43	19.30	20.15	20.40	21.24	21.11	21.98	22.83
	4H	18.01	18.77	18.73	19.51	20.40	20.94	21.70	21.66	22.44	23.33
	6H	18.15	18.82	18.90	19.58	20.47	21.32	21.99	22.07	22.75	23.64
	8H	18.16	18.79	18.91	19.55	20.45	21.43	22.06	22.18	22.82	23.72
	12H	18.15	18.71	18.92	19.49	20.40	21.50	22.06	22.28	22.85	23.76
8H	4H	18.48	19.11	19.24	19.87	20.77	21.09	21.71	21.84	22.47	23.37
	6H	18.76	19.28	19.54	20.08	20.99	21.54	22.05	22.32	22.86	23.76
	8H	18.81	19.27	19.60	20.07	20.99	21.69	22.15	22.48	22.95	23.87
	12H	18.81	19.21	19.60	20.00	20.98	21.80	22.21	22.60	23.00	23.98
12H	4H	18.51	19.07	19.28	19.85	20.76	21.07	21.63	21.84	22.41	23.32
	6H	18.82	19.28	19.62	20.09	21.01	21.54	22.00	22.33	22.80	23.72
	8H	18.91	19.31	19.70	20.10	21.09	21.71	22.12	22.51	22.91	23.89