

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: P934042

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934042
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-92765-1D-UNV-STD-W-6-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

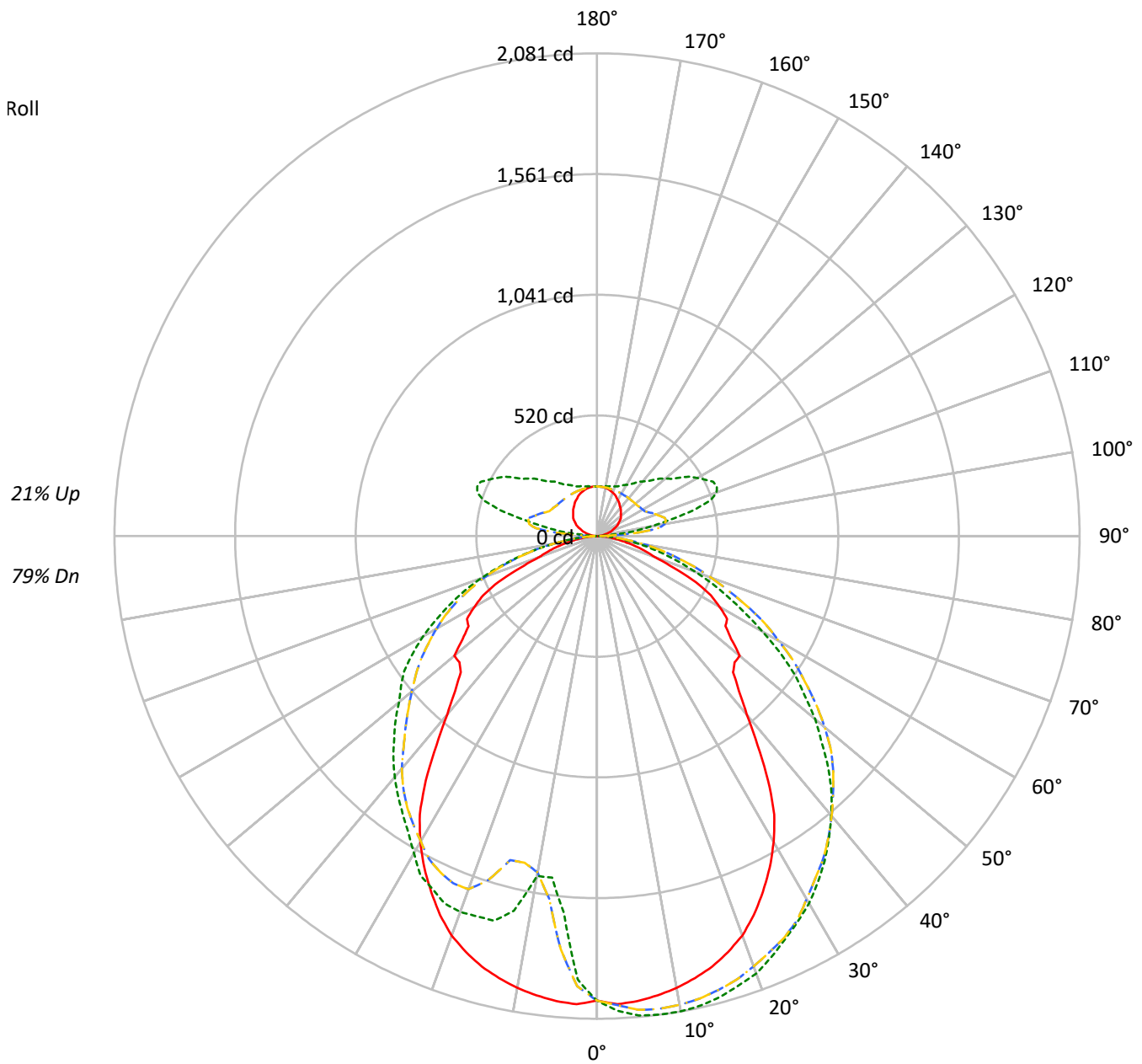
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6581.5 lumens
Efficiency: N/A
Efficacy: 113.1 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): 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°	12390	12390	12390	12390
5°	12478	12507	12478	9835
10°	12390	12320	12390	8808
15°	12251	12053	12251	10064
20°	11990	11737	11990	10086
25°	11461	11276	11461	9872
30°	10779	10893	10779	9403
35°	9605	10408	9605	8887
40°	7998	9838	7998	8497
45°	7142	9171	7142	8049
50°	7581	8375	7581	7600
55°	7127	7517	7127	7340
60°	7337	6384	7337	6722
65°	6642	5278	6642	5900
70°	4587	4206	4587	4945
75°	4008	3109	4008	3724
80°	3206	2056	3206	2238
85°	1806	1089	1806	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10953 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	2.7
10°-20°	513.3	7.8
20°-30°	793.5	12.1
30°-40°	947.3	14.4
40°-50°	952.8	14.5
50°-60°	829.1	12.6
60°-70°	587.8	8.9
70°-80°	311.0	4.7
80°-90°	78.3	1.2
90°-100°	104.3	1.6
100°-110°	274.3	4.2
110°-120°	284.4	4.3
120°-130°	228.1	3.5
130°-140°	179.0	2.7
140°-150°	137.4	2.1
150°-160°	99.0	1.5
160°-170°	60.5	0.9
170°-180°	20.5	0.3
0°-30°	1487.6	22.6
0°-40°	2434.9	37.0
0°-60°	4216.8	64.1
0°-90°	5193.9	78.9
90°-120°	663.1	10.1
90°-150°	1207.6	18.3
90°-180°	1388.0	21.1
0°-180°	6581.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2003	2003	2003	2003	2003	
5°	2012	2075	2012	1632	2012	191
15°	1921	2056	1921	1717	1921	541
25°	1692	1918	1692	1679	1692	777
35°	1287	1711	1287	1461	1287	796
45°	830	1410	830	1237	830	665
55°	676	1040	676	1016	676	622
65°	470	627	470	701	470	449
75°	178	298	178	356	178	187
85°	30	76	30	64	30	41
90°	1	6	1	6	1	2
95°	14	63	14	63	14	15
105°	49	430	49	430	49	52
115°	88	553	88	553	88	87
125°	122	440	122	440	122	108
135°	146	342	146	342	146	113
145°	169	277	169	277	169	106
155°	191	239	191	239	191	88
165°	206	222	206	222	206	58
175°	214	216	214	216	214	20
180°	214	214	214	214	214	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	2020.0	2020.0	2031.3	2035.1	2035.1	2029.4	2023.7	2029.4	2046.4	2052.2	2050.3
5°	2012.3	2027.5	2048.4	2052.2	2055.9	2054.0	2050.3	2054.0	2072.9	2076.8	2078.7
7.5°	1997.2	2025.6	2052.2	2057.8	2063.5	2057.8	2055.9	2059.7	2078.7	2082.5	2082.5
10°	1978.3	2018.0	2048.4	2052.2	2057.8	2052.2	2052.2	2059.7	2078.7	2082.5	2084.3
12.5°	1951.7	2006.7	2035.1	2038.9	2046.4	2044.5	2042.6	2050.3	2069.2	2072.9	2072.9
15°	1921.4	1985.8	2012.3	2016.1	2029.4	2025.6	2025.6	2033.2	2054.0	2059.7	2057.8
17.5°	1879.7	1959.2	1989.6	1995.3	2004.8	2002.8	2004.8	2012.3	2031.3	2035.1	2037.0
20°	1832.4	1923.3	1959.2	1965.0	1974.4	1974.4	1974.4	1983.9	2002.8	2010.5	2010.5
22.5°	1767.9	1885.4	1923.3	1927.1	1938.5	1938.5	1942.2	1955.5	1972.5	1974.4	1974.4
25°	1692.1	1843.7	1876.0	1887.2	1898.6	1904.4	1910.0	1917.6	1923.3	1921.4	1923.3
27.5°	1612.5	1790.7	1832.4	1839.9	1855.1	1860.8	1868.3	1870.2	1872.1	1877.8	1874.0
30°	1523.5	1716.7	1779.3	1786.8	1811.5	1815.2	1807.7	1811.5	1821.0	1824.8	1828.5
32.5°	1423.0	1606.9	1724.3	1741.4	1764.1	1752.7	1750.9	1756.5	1771.7	1771.7	1775.5
35°	1286.7	1521.6	1673.1	1688.3	1705.4	1692.1	1699.7	1701.5	1711.0	1716.7	1714.8
37.5°	1136.9	1447.7	1620.1	1631.5	1644.7	1627.7	1639.0	1644.7	1652.3	1648.6	1648.6
40°	1004.3	1332.1	1557.5	1565.2	1576.6	1563.3	1574.7	1578.4	1582.2	1578.4	1576.6
42.5°	905.7	1205.1	1491.3	1500.7	1493.2	1502.7	1506.4	1514.0	1508.3	1500.7	1500.7
45°	830.0	1171.0	1419.3	1430.7	1419.3	1434.4	1440.1	1440.1	1423.0	1419.3	1417.4
47.5°	805.3	1102.8	1347.3	1347.3	1341.5	1360.5	1369.9	1356.7	1339.6	1334.0	1334.0
50°	803.4	1027.0	1248.7	1241.1	1267.6	1290.4	1280.9	1267.6	1254.4	1233.6	1233.6
52.5°	729.5	934.2	1121.7	1150.2	1191.9	1205.1	1190.0	1176.7	1153.9	1144.5	1136.9
55°	676.5	837.5	1006.2	1063.0	1106.6	1123.6	1095.2	1081.9	1047.9	1042.2	1038.4
57.5°	665.1	697.4	900.1	972.1	1025.1	1023.2	1006.2	981.5	953.1	947.4	945.6
60°	610.1	504.0	786.4	871.7	926.6	920.9	905.7	883.0	856.5	852.7	848.9
62.5°	553.3	365.7	657.5	754.1	831.9	830.0	816.7	782.5	763.6	754.1	746.6
65°	470.0	306.9	468.1	627.2	739.0	742.8	714.4	689.7	668.9	657.5	655.7
67.5°	358.1	250.1	316.4	522.9	649.9	646.2	610.1	598.8	572.3	566.5	555.2
70°	265.2	166.8	219.8	424.5	562.8	553.3	524.9	511.7	487.0	473.7	466.1
72.5°	219.8	134.5	161.0	329.7	473.7	462.3	437.7	422.5	401.7	390.3	382.8
75°	178.1	142.1	123.2	244.4	384.7	377.1	354.4	339.2	322.1	306.9	308.9
77.5°	130.7	132.6	98.5	180.1	305.0	293.7	280.5	261.5	253.9	238.8	238.8
80°	98.5	104.2	73.9	123.2	219.8	219.8	208.5	195.2	181.9	174.3	174.3
82.5°	66.4	66.4	55.0	77.6	149.7	144.0	136.4	132.6	125.1	121.2	121.2
85°	30.3	37.9	34.1	47.3	81.5	85.3	85.3	81.5	79.6	75.8	77.6
87.5°	9.5	17.0	20.8	26.5	41.7	43.6	45.5	45.5	45.5	47.3	47.3
90°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3	5.5	5.5
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6	27.3	26.2
95°	13.8	31.6	49.5	54.0	95.9	151.7	179.7	160.4	121.6	92.7	89.4
97.5°	23.8	39.6	55.4	59.3	129.2	222.3	268.9	256.6	232.3	213.9	207.7
100°	31.6	45.9	60.2	63.8	141.3	244.7	296.3	297.2	299.0	300.3	292.9
102.5°	38.2	51.6	64.9	68.3	146.9	251.7	304.1	319.7	350.8	374.3	367.8
105°	49.4	60.7	72.0	74.9	151.0	252.4	303.2	338.1	408.0	460.4	457.0
107.5°	60.9	71.4	81.9	84.6	151.7	241.2	286.0	334.8	432.2	505.3	506.1
110°	68.7	78.2	87.7	90.1	150.6	231.3	271.7	326.2	435.1	516.7	520.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.3	85.4	94.4	96.7	150.6	222.6	258.6	314.3	425.8	509.4	514.8
115°	87.8	96.2	104.5	106.6	152.0	212.6	242.9	296.6	404.0	484.5	492.2
117.5°	99.2	106.7	114.3	116.2	154.8	206.3	232.2	280.6	377.5	450.2	458.6
120°	105.8	112.9	120.0	121.8	157.2	204.3	227.9	272.1	360.7	427.1	435.4
122.5°	112.2	119.4	126.6	128.4	160.4	203.2	224.5	264.4	344.1	404.0	412.1
125°	122.1	128.7	135.3	136.9	164.9	202.3	221.0	254.8	322.6	373.4	380.9
127.5°	130.1	136.7	143.4	145.1	169.3	201.8	217.9	247.0	305.2	348.8	355.1
130°	134.4	141.6	148.7	150.5	172.6	202.0	216.8	242.7	294.4	333.2	339.1
132.5°	138.9	146.1	153.2	155.0	175.3	202.3	215.8	239.0	285.3	320.0	325.2
135°	145.5	152.0	158.5	160.2	178.1	202.1	214.1	233.5	272.3	301.4	305.9
137.5°	152.3	158.7	165.1	166.8	182.4	203.4	213.8	230.3	263.0	287.6	291.3
140°	157.9	163.8	169.7	171.3	185.1	203.6	212.8	226.9	255.3	276.5	280.0
142.5°	162.2	167.6	173.2	174.5	187.2	204.2	212.8	225.2	250.1	268.8	271.8
145°	168.8	173.5	178.3	179.6	190.2	204.2	211.3	221.5	241.8	257.1	259.3
147.5°	175.4	180.1	184.7	185.9	194.4	205.7	211.3	219.4	235.3	247.4	249.2
150°	179.7	183.9	188.2	189.2	196.6	206.4	211.3	218.1	231.6	241.7	243.3
152.5°	184.2	187.3	190.6	191.3	198.0	206.9	211.3	217.1	228.6	237.3	238.5
155°	190.8	193.2	195.5	196.1	201.2	208.0	211.3	215.9	225.1	232.0	232.7
157.5°	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.9	222.0	227.4	228.0
160°	199.0	200.8	202.5	203.0	205.8	209.5	211.3	214.4	220.5	225.1	225.4
162.5°	202.2	203.6	204.9	205.3	207.3	210.0	211.3	213.9	219.1	223.0	223.3
165°	205.9	207.0	208.3	208.5	209.5	210.7	211.3	213.1	216.9	219.6	219.9
167.5°	209.1	209.7	210.3	210.5	211.2	212.3	212.8	214.0	216.4	218.2	218.3
170°	211.3	211.9	212.5	212.6	212.7	212.8	212.8	214.0	216.4	218.2	218.2
172.5°	212.5	212.6	212.8	212.8	212.8	212.8	212.8	213.7	215.6	217.1	217.0
175°	214.1	214.1	214.1	214.1	213.6	213.0	212.8	213.3	214.6	215.5	215.5
177.5°	214.1	214.1	214.1	214.1	213.7	213.2	213.0	213.5	214.5	215.2	215.1
180°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	2054.0	2048.4	2054.0	2050.3	2052.2	2046.4	2029.4	2023.7	2029.4	2035.1	2035.1
5°	2078.7	2074.8	2078.7	2078.7	2076.8	2072.9	2054.0	2050.3	2054.0	2055.9	2052.2
7.5°	2086.2	2080.6	2086.2	2082.5	2082.5	2078.7	2059.7	2055.9	2057.8	2063.5	2057.8
10°	2086.2	2080.6	2086.2	2084.3	2082.5	2078.7	2059.7	2052.2	2052.2	2057.8	2052.2
12.5°	2076.8	2072.9	2076.8	2072.9	2072.9	2069.2	2050.3	2042.6	2044.5	2046.4	2038.9
15°	2061.6	2055.9	2061.6	2057.8	2059.7	2054.0	2033.2	2025.6	2025.6	2029.4	2016.1
17.5°	2038.9	2031.3	2038.9	2037.0	2035.1	2031.3	2012.3	2004.8	2002.8	2004.8	1995.3
20°	2012.3	2006.7	2012.3	2010.5	2010.5	2002.8	1983.9	1974.4	1974.4	1974.4	1965.0
22.5°	1970.6	1965.0	1970.6	1974.4	1974.4	1972.5	1955.5	1942.2	1938.5	1938.5	1927.1
25°	1923.3	1917.6	1923.3	1923.3	1921.4	1923.3	1917.6	1910.0	1904.4	1898.6	1887.2
27.5°	1877.8	1874.0	1877.8	1874.0	1877.8	1872.1	1870.2	1868.3	1860.8	1855.1	1839.9
30°	1832.4	1828.5	1832.4	1828.5	1824.8	1821.0	1811.5	1807.7	1815.2	1811.5	1786.8
32.5°	1775.5	1771.7	1775.5	1775.5	1771.7	1771.7	1756.5	1750.9	1752.7	1764.1	1741.4
35°	1716.7	1711.0	1716.7	1714.8	1716.7	1711.0	1701.5	1699.7	1692.1	1705.4	1688.3
37.5°	1648.6	1642.8	1648.6	1648.6	1648.6	1652.3	1644.7	1639.0	1627.7	1644.7	1631.5
40°	1578.4	1570.8	1578.4	1576.6	1578.4	1582.2	1578.4	1574.7	1563.3	1576.6	1565.2
42.5°	1498.8	1496.9	1498.8	1500.7	1500.7	1508.3	1514.0	1506.4	1502.7	1493.2	1500.7
45°	1413.5	1409.8	1413.5	1417.4	1419.3	1423.0	1440.1	1440.1	1434.4	1419.3	1430.7
47.5°	1322.6	1313.1	1322.6	1334.0	1334.0	1339.6	1356.7	1369.9	1360.5	1341.5	1347.3
50°	1225.9	1227.8	1225.9	1233.6	1233.6	1254.4	1267.6	1280.9	1290.4	1267.6	1241.1
52.5°	1131.3	1129.4	1131.3	1136.9	1144.5	1153.9	1176.7	1190.0	1205.1	1191.9	1150.2
55°	1036.5	1040.2	1036.5	1038.4	1042.2	1047.9	1081.9	1095.2	1123.6	1106.6	1063.0
57.5°	941.8	936.0	941.8	945.6	947.4	953.1	981.5	1006.2	1023.2	1025.1	972.1
60°	831.9	824.2	831.9	848.9	852.7	856.5	883.0	905.7	920.9	926.6	871.7
62.5°	735.2	721.9	735.2	746.6	754.1	763.6	782.5	816.7	830.0	831.9	754.1
65°	632.9	627.2	632.9	655.7	657.5	668.9	689.7	714.4	742.8	739.0	627.2
67.5°	540.1	540.1	540.1	555.2	566.5	572.3	598.8	610.1	646.2	649.9	522.9
70°	454.8	452.9	454.8	466.1	473.7	487.0	511.7	524.9	553.3	562.8	424.5
72.5°	373.3	371.4	373.3	382.8	390.3	401.7	422.5	437.7	462.3	473.7	329.7
75°	301.3	297.5	301.3	308.9	306.9	322.1	339.2	354.4	377.1	384.7	244.4
77.5°	231.2	231.2	231.2	238.8	238.8	253.9	261.5	280.5	293.7	305.0	180.1
80°	172.4	170.6	172.4	174.3	174.3	181.9	195.2	208.5	219.8	219.8	123.2
82.5°	121.2	117.5	121.2	121.2	121.2	125.1	132.6	136.4	144.0	149.7	77.6
85°	75.8	75.8	75.8	77.6	75.8	79.6	81.5	85.3	85.3	81.5	47.3
87.5°	49.2	47.3	49.2	47.3	47.3	45.5	45.5	45.5	43.6	41.7	26.5
90°	5.5	5.5	5.5	5.5	5.5	7.3	9.7	10.9	9.4	6.3	4.0
92.5°	21.8	17.5	21.8	26.2	27.3	38.6	53.8	61.5	54.0	39.0	27.7
95°	76.2	63.1	76.2	89.4	92.7	121.6	160.4	179.7	151.7	95.9	54.0
97.5°	182.6	157.6	182.6	207.7	213.9	232.3	256.6	268.9	222.3	129.2	59.3
100°	263.1	233.3	263.1	292.9	300.3	299.0	297.2	296.3	244.7	141.3	63.8
102.5°	342.3	316.8	342.3	367.8	374.3	350.8	319.7	304.1	251.7	146.9	68.3
105°	443.3	429.5	443.3	457.0	460.4	408.0	338.1	303.2	252.4	151.0	74.9
107.5°	509.4	512.7	509.4	506.1	505.3	432.2	334.8	286.0	241.2	151.7	84.6
110°	534.6	549.0	534.6	520.3	516.7	435.1	326.2	271.7	231.3	150.6	90.1



TEST NUMBER: P934042

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	536.8	558.8	536.8	514.8	509.4	425.8	314.3	258.6	222.6	150.6	96.7
115°	522.6	553.1	522.6	492.2	484.5	404.0	296.6	242.9	212.6	152.0	106.6
117.5°	492.4	526.2	492.4	458.6	450.2	377.5	280.6	232.2	206.3	154.8	116.2
120°	468.2	500.9	468.2	435.4	427.1	360.7	272.1	227.9	204.3	157.2	121.8
122.5°	444.4	476.8	444.4	412.1	404.0	344.1	264.4	224.5	203.2	160.4	128.4
125°	410.6	440.4	410.6	380.9	373.4	322.6	254.8	221.0	202.3	164.9	136.9
127.5°	380.3	405.4	380.3	355.1	348.8	305.2	247.0	217.9	201.8	169.3	145.1
130°	362.3	385.5	362.3	339.1	333.2	294.4	242.7	216.8	202.0	172.6	150.5
132.5°	346.0	366.9	346.0	325.2	320.0	285.3	239.0	215.8	202.3	175.3	155.0
135°	323.8	341.7	323.8	305.9	301.4	272.3	233.5	214.1	202.1	178.1	160.2
137.5°	306.0	320.6	306.0	291.3	287.6	263.0	230.3	213.8	203.4	182.4	166.8
140°	293.6	307.4	293.6	280.0	276.5	255.3	226.9	212.8	203.6	185.1	171.3
142.5°	283.5	295.4	283.5	271.8	268.8	250.1	225.2	212.8	204.2	187.2	174.5
145°	268.3	277.3	268.3	259.3	257.1	241.8	221.5	211.3	204.2	190.2	179.6
147.5°	256.6	264.0	256.6	249.2	247.4	235.3	219.4	211.3	205.7	194.4	185.9
150°	249.3	255.3	249.3	243.3	241.7	231.6	218.1	211.3	206.4	196.6	189.2
152.5°	243.0	247.6	243.0	238.5	237.3	228.6	217.1	211.3	206.9	198.0	191.3
155°	235.7	238.8	235.7	232.7	232.0	225.1	215.9	211.3	208.0	201.2	196.1
157.5°	230.1	232.2	230.1	228.0	227.4	222.0	214.9	211.3	209.0	204.3	200.8
160°	226.6	227.9	226.6	225.4	225.1	220.5	214.4	211.3	209.5	205.8	203.0
162.5°	224.4	225.6	224.4	223.3	223.0	219.1	213.9	211.3	210.0	207.3	205.3
165°	221.2	222.4	221.2	219.9	219.6	216.9	213.1	211.3	210.7	209.5	208.5
167.5°	218.9	219.4	218.9	218.3	218.2	216.4	214.0	212.8	212.3	211.2	210.5
170°	218.2	218.2	218.2	218.2	218.2	216.4	214.0	212.8	212.8	212.7	212.6
172.5°	216.5	216.1	216.5	217.0	217.1	215.6	213.7	212.8	212.8	212.8	212.8
175°	215.5	215.5	215.5	215.5	215.5	214.6	213.3	212.8	213.0	213.6	214.1
177.5°	214.6	214.1	214.6	215.1	215.2	214.5	213.5	213.0	213.2	213.7	214.1
180°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1



TEST NUMBER: P934042

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	2031.3	2020.0	2020.0	2000.9	1993.4	1987.7	1978.3	1949.8	1942.2	1934.7	1946.0
5°	2048.4	2027.5	2012.3	1978.3	1949.8	1938.5	1902.4	1834.3	1788.8	1754.6	1735.7
7.5°	2052.2	2025.6	1997.2	1944.1	1876.0	1845.5	1735.7	1610.6	1576.6	1546.2	1527.2
10°	2048.4	2018.0	1978.3	1898.6	1737.6	1684.5	1574.7	1493.2	1472.3	1466.6	1472.3
12.5°	2035.1	2006.7	1951.7	1819.1	1593.6	1557.5	1493.2	1445.8	1442.0	1451.5	1502.7
15°	2012.3	1985.8	1921.4	1712.9	1514.0	1487.5	1442.0	1424.9	1445.8	1512.1	1665.6
17.5°	1989.6	1959.2	1879.7	1608.7	1453.3	1434.4	1402.2	1436.3	1553.8	1642.8	1694.0
20°	1959.2	1923.3	1832.4	1533.0	1409.8	1392.7	1377.6	1531.1	1620.1	1652.3	1680.7
22.5°	1923.3	1885.4	1767.9	1479.9	1364.3	1351.0	1360.5	1584.1	1620.1	1642.8	1667.5
25°	1876.0	1843.7	1692.1	1438.2	1328.3	1313.1	1349.2	1578.4	1599.2	1605.0	1654.2
27.5°	1832.4	1790.7	1612.5	1400.3	1284.7	1279.0	1358.7	1553.8	1568.9	1574.7	1627.7
30°	1779.3	1716.7	1523.5	1360.5	1239.2	1237.3	1360.5	1523.5	1519.7	1534.9	1587.9
32.5°	1724.3	1606.9	1423.0	1311.2	1195.6	1193.8	1347.3	1478.0	1474.2	1495.0	1534.9
35°	1673.1	1521.6	1286.7	1254.4	1140.7	1142.6	1315.1	1424.9	1426.8	1445.8	1470.4
37.5°	1620.1	1447.7	1136.9	1191.9	1087.7	1087.7	1271.4	1375.7	1371.9	1377.6	1411.6
40°	1557.5	1332.1	1004.3	1110.4	1038.4	1032.7	1218.4	1322.6	1309.3	1307.5	1354.8
42.5°	1491.3	1205.1	905.7	1002.4	981.5	974.0	1153.9	1258.2	1233.6	1239.2	1299.8
45°	1419.3	1171.0	830.0	847.0	922.8	917.1	1083.8	1184.2	1167.2	1182.4	1245.0
47.5°	1347.3	1102.8	805.3	703.0	860.3	858.4	1006.2	1112.2	1102.8	1118.0	1184.2
50°	1248.7	1027.0	803.4	602.6	790.2	797.8	913.4	1042.2	1042.2	1055.4	1125.5
52.5°	1121.7	934.2	729.5	545.7	708.6	731.4	831.9	981.5	985.4	998.6	1061.1
55°	1006.2	837.5	676.5	502.1	612.1	661.3	752.2	919.0	926.6	939.8	996.7
57.5°	900.1	697.4	665.1	450.9	522.9	570.4	682.1	858.4	862.2	873.6	928.5
60°	786.4	504.0	610.1	396.1	445.3	481.3	617.7	786.4	799.7	807.2	854.5
62.5°	657.5	365.7	553.3	358.1	407.4	415.0	564.6	718.2	735.2	740.9	769.4
65°	468.1	306.9	470.0	325.9	367.6	369.5	507.8	648.0	663.2	672.7	693.5
67.5°	316.4	250.1	358.1	295.6	337.2	339.2	452.9	566.5	587.4	594.9	608.2
70°	219.8	166.8	265.2	263.4	303.2	306.9	394.1	492.6	511.7	517.3	524.9
72.5°	161.0	134.5	219.8	236.8	267.2	271.0	333.5	409.3	428.3	433.9	437.7
75°	123.2	142.1	178.1	206.5	227.4	229.3	272.9	333.5	346.7	350.5	352.5
77.5°	98.5	132.6	130.7	166.8	185.7	181.9	214.1	257.7	269.1	269.1	269.1
80°	73.9	104.2	98.5	119.3	136.4	132.6	153.5	183.8	187.6	191.3	189.5
82.5°	55.0	66.4	66.4	75.8	90.9	87.2	102.3	119.3	119.3	119.3	123.2
85°	34.1	37.9	30.3	39.8	51.2	49.2	56.9	64.4	66.4	66.4	62.5
87.5°	20.8	17.0	9.5	15.2	22.8	22.8	26.5	28.4	26.5	26.5	26.5
90°	3.7	2.6	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3
92.5°	25.2	15.5	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6
95°	49.5	31.6	13.8	31.6	49.5	54.0	95.9	151.7	179.7	160.4	121.6
97.5°	55.4	39.6	23.8	39.6	55.4	59.3	129.2	222.3	268.9	256.6	232.3
100°	60.2	45.9	31.6	45.9	60.2	63.8	141.3	244.7	296.3	297.2	299.0
102.5°	64.9	51.6	38.2	51.6	64.9	68.3	146.9	251.7	304.1	319.7	350.8
105°	72.0	60.7	49.4	60.7	72.0	74.9	151.0	252.4	303.2	338.1	408.0
107.5°	81.9	71.4	60.9	71.4	81.9	84.6	151.7	241.2	286.0	334.8	432.2
110°	87.7	78.2	68.7	78.2	87.7	90.1	150.6	231.3	271.7	326.2	435.1



TEST NUMBER: P934042

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	94.4	85.4	76.3	85.4	94.4	96.7	150.6	222.6	258.6	314.3	425.8
115°	104.5	96.2	87.8	96.2	104.5	106.6	152.0	212.6	242.9	296.6	404.0
117.5°	114.3	106.7	99.2	106.7	114.3	116.2	154.8	206.3	232.2	280.6	377.5
120°	120.0	112.9	105.8	112.9	120.0	121.8	157.2	204.3	227.9	272.1	360.7
122.5°	126.6	119.4	112.2	119.4	126.6	128.4	160.4	203.2	224.5	264.4	344.1
125°	135.3	128.7	122.1	128.7	135.3	136.9	164.9	202.3	221.0	254.8	322.6
127.5°	143.4	136.7	130.1	136.7	143.4	145.1	169.3	201.8	217.9	247.0	305.2
130°	148.7	141.6	134.4	141.6	148.7	150.5	172.6	202.0	216.8	242.7	294.4
132.5°	153.2	146.1	138.9	146.1	153.2	155.0	175.3	202.3	215.8	239.0	285.3
135°	158.5	152.0	145.5	152.0	158.5	160.2	178.1	202.1	214.1	233.5	272.3
137.5°	165.1	158.7	152.3	158.7	165.1	166.8	182.4	203.4	213.8	230.3	263.0
140°	169.7	163.8	157.9	163.8	169.7	171.3	185.1	203.6	212.8	226.9	255.3
142.5°	173.2	167.6	162.2	167.6	173.2	174.5	187.2	204.2	212.8	225.2	250.1
145°	178.3	173.5	168.8	173.5	178.3	179.6	190.2	204.2	211.3	221.5	241.8
147.5°	184.7	180.1	175.4	180.1	184.7	185.9	194.4	205.7	211.3	219.4	235.3
150°	188.2	183.9	179.7	183.9	188.2	189.2	196.6	206.4	211.3	218.1	231.6
152.5°	190.6	187.3	184.2	187.3	190.6	191.3	198.0	206.9	211.3	217.1	228.6
155°	195.5	193.2	190.8	193.2	195.5	196.1	201.2	208.0	211.3	215.9	225.1
157.5°	200.2	197.9	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.9	222.0
160°	202.5	200.8	199.0	200.8	202.5	203.0	205.8	209.5	211.3	214.4	220.5
162.5°	204.9	203.6	202.2	203.6	204.9	205.3	207.3	210.0	211.3	213.9	219.1
165°	208.3	207.0	205.9	207.0	208.3	208.5	209.5	210.7	211.3	213.1	216.9
167.5°	210.3	209.7	209.1	209.7	210.3	210.5	211.2	212.3	212.8	214.0	216.4
170°	212.5	211.9	211.3	211.9	212.5	212.6	212.7	212.8	212.8	214.0	216.4
172.5°	212.8	212.6	212.5	212.6	212.8	212.8	212.8	212.8	212.8	213.7	215.6
175°	214.1	214.1	214.1	214.1	214.1	214.1	213.6	213.0	212.8	213.3	214.6
177.5°	214.1	214.1	214.1	214.1	214.1	214.1	213.7	213.2	213.0	213.5	214.5
180°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1



TEST NUMBER: P934042

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	1932.8	1927.1	1934.7	1913.8	1934.7	1927.1	1932.8	1946.0	1934.7	1942.2	1949.8
5°	1695.9	1686.4	1656.1	1631.5	1656.1	1686.4	1695.9	1735.7	1754.6	1788.8	1834.3
7.5°	1515.9	1508.3	1500.7	1485.5	1500.7	1508.3	1515.9	1527.2	1546.2	1576.6	1610.6
10°	1476.1	1478.0	1489.4	1487.5	1489.4	1478.0	1476.1	1472.3	1466.6	1472.3	1493.2
12.5°	1578.4	1595.5	1658.0	1654.2	1658.0	1595.5	1578.4	1502.7	1451.5	1442.0	1445.8
15°	1695.9	1701.5	1714.8	1716.7	1714.8	1701.5	1695.9	1665.6	1512.1	1445.8	1424.9
17.5°	1707.3	1709.2	1718.7	1718.7	1718.7	1709.2	1707.3	1694.0	1642.8	1553.8	1436.3
20°	1697.8	1701.5	1720.6	1724.3	1720.6	1701.5	1697.8	1680.7	1652.3	1620.1	1531.1
22.5°	1694.0	1701.5	1716.7	1714.8	1716.7	1701.5	1694.0	1667.5	1642.8	1620.1	1584.1
25°	1675.1	1675.1	1677.0	1678.9	1677.0	1675.1	1675.1	1654.2	1605.0	1599.2	1578.4
27.5°	1635.3	1639.0	1650.4	1648.6	1650.4	1639.0	1635.3	1627.7	1574.7	1568.9	1553.8
30°	1599.2	1595.5	1586.0	1578.4	1586.0	1595.5	1599.2	1587.9	1534.9	1519.7	1523.5
32.5°	1538.6	1529.1	1519.7	1514.0	1519.7	1529.1	1538.6	1534.9	1495.0	1474.2	1478.0
35°	1466.6	1468.5	1466.6	1461.0	1466.6	1468.5	1466.6	1470.4	1445.8	1426.8	1424.9
37.5°	1415.5	1419.3	1417.4	1409.8	1417.4	1419.3	1415.5	1411.6	1377.6	1371.9	1375.7
40°	1362.4	1364.3	1362.4	1356.7	1362.4	1364.3	1362.4	1354.8	1307.5	1309.3	1322.6
42.5°	1311.2	1309.3	1303.7	1299.8	1303.7	1309.3	1311.2	1299.8	1239.2	1233.6	1258.2
45°	1252.5	1254.4	1243.1	1237.3	1243.1	1254.4	1252.5	1245.0	1182.4	1167.2	1184.2
47.5°	1193.8	1193.8	1184.2	1178.6	1184.2	1193.8	1193.8	1184.2	1118.0	1102.8	1112.2
50°	1131.3	1129.4	1116.1	1114.2	1116.1	1129.4	1131.3	1125.5	1055.4	1042.2	1042.2
52.5°	1059.3	1059.3	1061.1	1064.9	1061.1	1059.3	1059.3	1061.1	998.6	985.4	981.5
55°	996.7	998.6	1011.8	1015.7	1011.8	998.6	996.7	996.7	939.8	926.6	919.0
57.5°	932.3	932.3	941.8	941.8	941.8	932.3	932.3	928.5	873.6	862.2	858.4
60°	858.4	862.2	869.8	867.8	869.8	862.2	858.4	854.5	807.2	799.7	786.4
62.5°	780.6	784.5	786.4	782.5	786.4	784.5	780.6	769.4	740.9	735.2	718.2
65°	699.2	703.0	704.9	701.1	704.9	703.0	699.2	693.5	672.7	663.2	648.0
67.5°	615.8	614.0	612.1	619.6	612.1	614.0	615.8	608.2	594.9	587.4	566.5
70°	530.6	530.6	528.7	532.4	528.7	530.6	530.6	524.9	517.3	511.7	492.6
72.5°	439.6	437.7	445.3	439.6	445.3	437.7	439.6	437.7	433.9	428.3	409.3
75°	350.5	354.4	350.5	356.3	350.5	354.4	350.5	352.5	350.5	346.7	333.5
77.5°	267.2	271.0	267.2	267.2	267.2	271.0	267.2	269.1	269.1	269.1	257.7
80°	189.5	187.6	187.6	185.7	187.6	187.6	189.5	189.5	191.3	187.6	183.8
82.5°	121.2	119.3	119.3	123.2	119.3	119.3	121.2	123.2	119.3	119.3	119.3
85°	66.4	68.2	64.4	64.4	64.4	68.2	66.4	62.5	66.4	66.4	64.4
87.5°	24.7	22.8	22.8	22.8	22.8	22.8	24.7	26.5	26.5	26.5	28.4
90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.3	9.7	10.9	9.4
92.5°	27.3	26.2	21.8	17.5	21.8	26.2	27.3	38.6	53.8	61.5	54.0
95°	92.7	89.4	76.2	63.1	76.2	89.4	92.7	121.6	160.4	179.7	151.7
97.5°	213.9	207.7	182.6	157.6	182.6	207.7	213.9	232.3	256.6	268.9	222.3
100°	300.3	292.9	263.1	233.3	263.1	292.9	300.3	299.0	297.2	296.3	244.7
102.5°	374.3	367.8	342.3	316.8	342.3	367.8	374.3	350.8	319.7	304.1	251.7
105°	460.4	457.0	443.3	429.5	443.3	457.0	460.4	408.0	338.1	303.2	252.4
107.5°	505.3	506.1	509.4	512.7	509.4	506.1	505.3	432.2	334.8	286.0	241.2
110°	516.7	520.3	534.6	549.0	534.6	520.3	516.7	435.1	326.2	271.7	231.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	509.4	514.8	536.8	558.8	536.8	514.8	509.4	425.8	314.3	258.6	222.6
115°	484.5	492.2	522.6	553.1	522.6	492.2	484.5	404.0	296.6	242.9	212.6
117.5°	450.2	458.6	492.4	526.2	492.4	458.6	450.2	377.5	280.6	232.2	206.3
120°	427.1	435.4	468.2	500.9	468.2	435.4	427.1	360.7	272.1	227.9	204.3
122.5°	404.0	412.1	444.4	476.8	444.4	412.1	404.0	344.1	264.4	224.5	203.2
125°	373.4	380.9	410.6	440.4	410.6	380.9	373.4	322.6	254.8	221.0	202.3
127.5°	348.8	355.1	380.3	405.4	380.3	355.1	348.8	305.2	247.0	217.9	201.8
130°	333.2	339.1	362.3	385.5	362.3	339.1	333.2	294.4	242.7	216.8	202.0
132.5°	320.0	325.2	346.0	366.9	346.0	325.2	320.0	285.3	239.0	215.8	202.3
135°	301.4	305.9	323.8	341.7	323.8	305.9	301.4	272.3	233.5	214.1	202.1
137.5°	287.6	291.3	306.0	320.6	306.0	291.3	287.6	263.0	230.3	213.8	203.4
140°	276.5	280.0	293.6	307.4	293.6	280.0	276.5	255.3	226.9	212.8	203.6
142.5°	268.8	271.8	283.5	295.4	283.5	271.8	268.8	250.1	225.2	212.8	204.2
145°	257.1	259.3	268.3	277.3	268.3	259.3	257.1	241.8	221.5	211.3	204.2
147.5°	247.4	249.2	256.6	264.0	256.6	249.2	247.4	235.3	219.4	211.3	205.7
150°	241.7	243.3	249.3	255.3	249.3	243.3	241.7	231.6	218.1	211.3	206.4
152.5°	237.3	238.5	243.0	247.6	243.0	238.5	237.3	228.6	217.1	211.3	206.9
155°	232.0	232.7	235.7	238.8	235.7	232.7	232.0	225.1	215.9	211.3	208.0
157.5°	227.4	228.0	230.1	232.2	230.1	228.0	227.4	222.0	214.9	211.3	209.0
160°	225.1	225.4	226.6	227.9	226.6	225.4	225.1	220.5	214.4	211.3	209.5
162.5°	223.0	223.3	224.4	225.6	224.4	223.3	223.0	219.1	213.9	211.3	210.0
165°	219.6	219.9	221.2	222.4	221.2	219.9	219.6	216.9	213.1	211.3	210.7
167.5°	218.2	218.3	218.9	219.4	218.9	218.3	218.2	216.4	214.0	212.8	212.3
170°	218.2	218.2	218.2	218.2	218.2	218.2	218.2	216.4	214.0	212.8	212.8
172.5°	217.1	217.0	216.5	216.1	216.5	217.0	217.1	215.6	213.7	212.8	212.8
175°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	214.6	213.3	212.8	213.0
177.5°	215.2	215.1	214.6	214.1	214.6	215.1	215.2	214.5	213.5	213.0	213.2
180°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	1978.3	1987.7	1993.4	2000.9	2020.0
5°	1902.4	1938.5	1949.8	1978.3	2012.3
7.5°	1735.7	1845.5	1876.0	1944.1	1997.2
10°	1574.7	1684.5	1737.6	1898.6	1978.3
12.5°	1493.2	1557.5	1593.6	1819.1	1951.7
15°	1442.0	1487.5	1514.0	1712.9	1921.4
17.5°	1402.2	1434.4	1453.3	1608.7	1879.7
20°	1377.6	1392.7	1409.8	1533.0	1832.4
22.5°	1360.5	1351.0	1364.3	1479.9	1767.9
25°	1349.2	1313.1	1328.3	1438.2	1692.1
27.5°	1358.7	1279.0	1284.7	1400.3	1612.5
30°	1360.5	1237.3	1239.2	1360.5	1523.5
32.5°	1347.3	1193.8	1195.6	1311.2	1423.0
35°	1315.1	1142.6	1140.7	1254.4	1286.7
37.5°	1271.4	1087.7	1087.7	1191.9	1136.9
40°	1218.4	1032.7	1038.4	1110.4	1004.3
42.5°	1153.9	974.0	981.5	1002.4	905.7
45°	1083.8	917.1	922.8	847.0	830.0
47.5°	1006.2	858.4	860.3	703.0	805.3
50°	913.4	797.8	790.2	602.6	803.4
52.5°	831.9	731.4	708.6	545.7	729.5
55°	752.2	661.3	612.1	502.1	676.5
57.5°	682.1	570.4	522.9	450.9	665.1
60°	617.7	481.3	445.3	396.1	610.1
62.5°	564.6	415.0	407.4	358.1	553.3
65°	507.8	369.5	367.6	325.9	470.0
67.5°	452.9	339.2	337.2	295.6	358.1
70°	394.1	306.9	303.2	263.4	265.2
72.5°	333.5	271.0	267.2	236.8	219.8
75°	272.9	229.3	227.4	206.5	178.1
77.5°	214.1	181.9	185.7	166.8	130.7
80°	153.5	132.6	136.4	119.3	98.5
82.5°	102.3	87.2	90.9	75.8	66.4
85°	56.9	49.2	51.2	39.8	30.3
87.5°	26.5	22.8	22.8	15.2	9.5
90°	6.3	4.0	3.7	2.6	1.4
92.5°	39.0	27.7	25.2	15.5	5.7
95°	95.9	54.0	49.5	31.6	13.8
97.5°	129.2	59.3	55.4	39.6	23.8
100°	141.3	63.8	60.2	45.9	31.6
102.5°	146.9	68.3	64.9	51.6	38.2
105°	151.0	74.9	72.0	60.7	49.4
107.5°	151.7	84.6	81.9	71.4	60.9
110°	150.6	90.1	87.7	78.2	68.7



TEST NUMBER: P934042

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	150.6	96.7	94.4	85.4	76.3
115°	152.0	106.6	104.5	96.2	87.8
117.5°	154.8	116.2	114.3	106.7	99.2
120°	157.2	121.8	120.0	112.9	105.8
122.5°	160.4	128.4	126.6	119.4	112.2
125°	164.9	136.9	135.3	128.7	122.1
127.5°	169.3	145.1	143.4	136.7	130.1
130°	172.6	150.5	148.7	141.6	134.4
132.5°	175.3	155.0	153.2	146.1	138.9
135°	178.1	160.2	158.5	152.0	145.5
137.5°	182.4	166.8	165.1	158.7	152.3
140°	185.1	171.3	169.7	163.8	157.9
142.5°	187.2	174.5	173.2	167.6	162.2
145°	190.2	179.6	178.3	173.5	168.8
147.5°	194.4	185.9	184.7	180.1	175.4
150°	196.6	189.2	188.2	183.9	179.7
152.5°	198.0	191.3	190.6	187.3	184.2
155°	201.2	196.1	195.5	193.2	190.8
157.5°	204.3	200.8	200.2	197.9	195.6
160°	205.8	203.0	202.5	200.8	199.0
162.5°	207.3	205.3	204.9	203.6	202.2
165°	209.5	208.5	208.3	207.0	205.9
167.5°	211.2	210.5	210.3	209.7	209.1
170°	212.7	212.6	212.5	211.9	211.3
172.5°	212.8	212.8	212.8	212.6	212.5
175°	213.6	214.1	214.1	214.1	214.1
177.5°	213.7	214.1	214.1	214.1	214.1
180°	214.1	214.1	214.1	214.1	214.1



TEST NUMBER: P934042
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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	15.88	17.08	16.54	17.76	18.55	18.71	19.90	19.37	20.58	21.37
	3H	16.38	17.46	17.06	18.15	18.97	20.07	21.15	20.75	21.84	22.66
	4H	16.59	17.61	17.28	18.31	19.14	20.53	21.55	21.23	22.25	23.08
	6H	16.73	17.66	17.43	18.37	19.22	20.83	21.77	21.54	22.48	23.33
	8H	16.74	17.63	17.46	18.36	19.21	20.92	21.81	21.64	22.54	23.39
	12H	16.72	17.57	17.44	18.30	19.18	20.97	21.82	21.69	22.54	23.42
4H	2H	16.95	17.97	17.65	18.67	19.50	19.16	20.17	19.85	20.87	21.71
	3H	18.01	18.86	18.72	19.59	20.45	20.69	21.54	21.40	22.27	23.13
	4H	18.30	19.07	19.03	19.81	20.69	21.23	22.00	21.96	22.74	23.62
	6H	18.44	19.11	19.19	19.88	20.77	21.61	22.28	22.36	23.04	23.94
	8H	18.46	19.08	19.21	19.84	20.75	21.73	22.35	22.48	23.11	24.01
	12H	18.44	19.00	19.21	19.79	20.69	21.80	22.36	22.57	23.14	24.05
8H	4H	18.78	19.40	19.53	20.16	21.07	21.38	22.01	22.13	22.77	23.67
	6H	19.06	19.57	19.84	20.37	21.28	21.83	22.35	22.61	23.15	24.06
	8H	19.10	19.56	19.89	20.36	21.29	21.99	22.45	22.78	23.25	24.17
	12H	19.10	19.51	19.90	20.30	21.28	22.10	22.50	22.89	23.30	24.28
12H	4H	18.80	19.36	19.57	20.15	21.06	21.36	21.92	22.13	22.71	23.62
	6H	19.12	19.58	19.91	20.38	21.30	21.83	22.29	22.62	23.09	24.02
	8H	19.20	19.61	20.00	20.40	21.38	22.01	22.41	22.80	23.21	24.19