

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: P934063

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934063
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-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

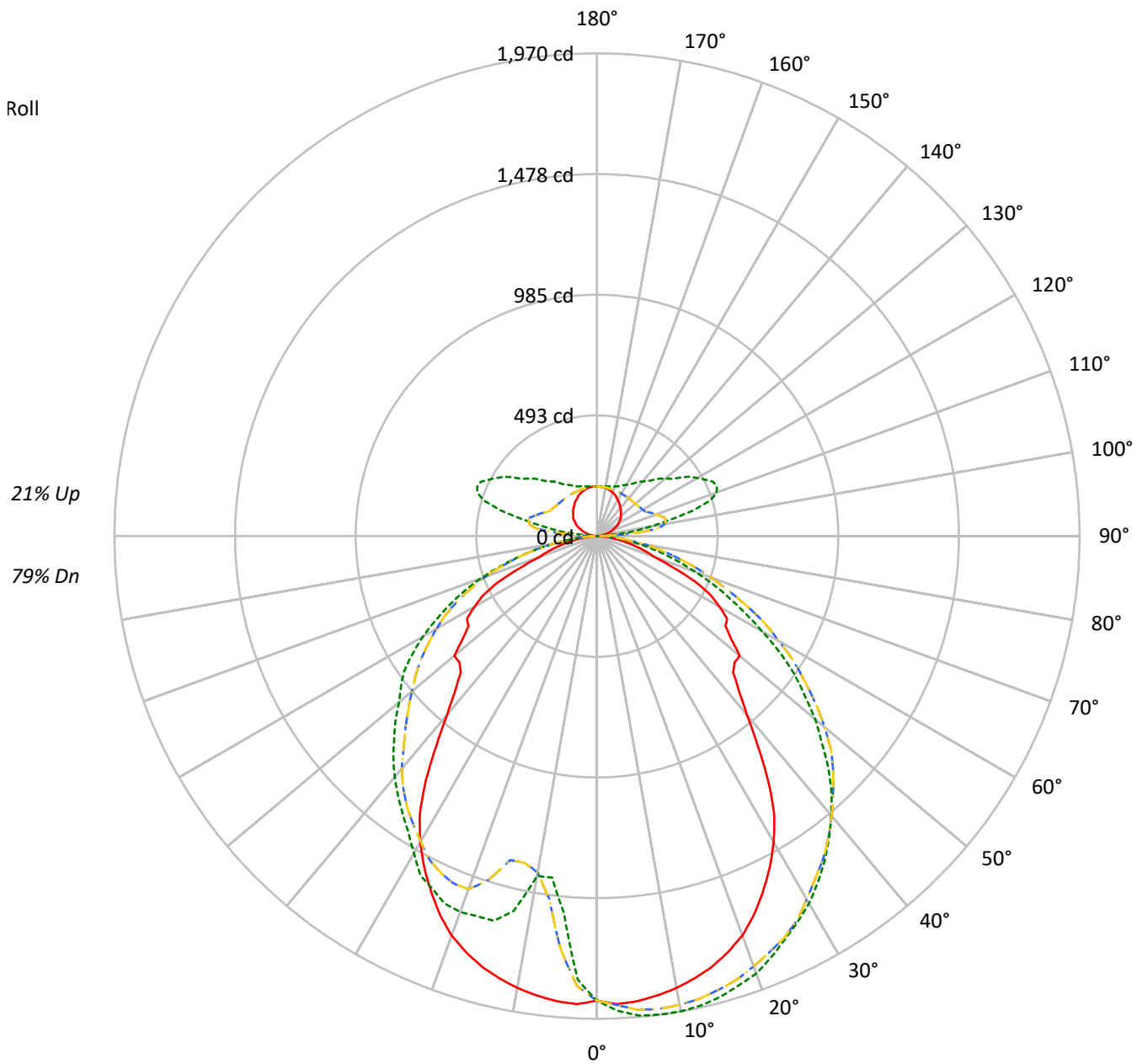
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6230.2 lumens
Efficiency: N/A
Efficacy: 107.0 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°	11729	11729	11729	11729
5°	11812	11839	11812	9310
10°	11729	11662	11729	8338
15°	11597	11410	11597	9527
20°	11350	11111	11350	9547
25°	10849	10674	10849	9345
30°	10204	10311	10204	8901
35°	9092	9853	9092	8413
40°	7571	9313	7571	8044
45°	6761	8682	6761	7620
50°	7176	7928	7176	7194
55°	6746	7116	6746	6948
60°	6946	6043	6946	6363
65°	6288	4996	6288	5585
70°	4343	3982	4343	4681
75°	3794	2943	3794	3525
80°	3033	1947	3033	2119
85°	1711	1031	1711	876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10368 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	2.7
10°-20°	485.9	7.8
20°-30°	751.2	12.1
30°-40°	896.7	14.4
40°-50°	902.0	14.5
50°-60°	784.8	12.6
60°-70°	556.5	8.9
70°-80°	294.4	4.7
80°-90°	74.1	1.2
90°-100°	98.7	1.6
100°-110°	259.7	4.2
110°-120°	269.2	4.3
120°-130°	216.0	3.5
130°-140°	169.5	2.7
140°-150°	130.1	2.1
150°-160°	93.7	1.5
160°-170°	57.3	0.9
170°-180°	19.4	0.3
0°-30°	1408.2	22.6
0°-40°	2305.0	37.0
0°-60°	3991.8	64.1
0°-90°	4916.7	78.9
90°-120°	627.7	10.1
90°-150°	1143.2	18.3
90°-180°	1313.0	21.1
0°-180°	6230.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1896	1896	1896	1896	1896	
5°	1905	1964	1905	1544	1905	181
15°	1819	1946	1819	1625	1819	512
25°	1602	1815	1602	1589	1602	735
35°	1218	1620	1218	1383	1218	754
45°	786	1335	786	1171	786	629
55°	640	985	640	962	640	588
65°	445	594	445	664	445	425
75°	169	282	169	337	169	177
85°	29	72	29	61	29	39
90°	1	5	1	5	1	2
95°	13	60	13	60	13	14
105°	47	407	47	407	47	50
115°	83	524	83	524	83	82
125°	116	417	116	417	116	103
135°	138	324	138	324	138	107
145°	160	262	160	262	160	100
155°	181	226	181	226	181	83
165°	195	210	195	210	195	55
175°	203	204	203	204	203	19
180°	203	203	203	203	203	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1912.2	1912.2	1922.9	1926.5	1926.5	1921.1	1915.7	1921.1	1937.2	1942.7	1940.8
5°	1904.9	1919.3	1939.0	1942.7	1946.2	1944.4	1940.8	1944.4	1962.3	1965.9	1967.7
7.5°	1890.6	1917.5	1942.7	1948.0	1953.3	1948.0	1946.2	1949.8	1967.7	1971.4	1971.4
10°	1872.7	1910.3	1939.0	1942.7	1948.0	1942.7	1942.7	1949.8	1967.7	1971.4	1973.1
12.5°	1847.5	1899.6	1926.5	1930.1	1937.2	1935.4	1933.6	1940.8	1958.8	1962.3	1962.3
15°	1818.8	1879.8	1904.9	1908.5	1921.1	1917.5	1917.5	1924.6	1944.4	1949.8	1948.0
17.5°	1779.4	1854.7	1883.5	1888.8	1897.8	1896.0	1897.8	1904.9	1922.9	1926.5	1928.3
20°	1734.6	1820.6	1854.7	1860.1	1869.1	1869.1	1869.1	1878.0	1896.0	1903.2	1903.2
22.5°	1673.6	1784.8	1820.6	1824.3	1835.0	1835.0	1838.6	1851.1	1867.3	1869.1	1869.1
25°	1601.8	1745.3	1775.8	1786.5	1797.3	1802.7	1808.1	1815.3	1820.6	1818.8	1820.6
27.5°	1526.5	1695.1	1734.6	1741.7	1756.1	1761.4	1768.6	1770.4	1772.2	1777.6	1774.0
30°	1442.2	1625.1	1684.3	1691.5	1714.8	1718.4	1711.2	1714.8	1723.8	1727.4	1730.9
32.5°	1347.1	1521.1	1632.3	1648.5	1669.9	1659.2	1657.4	1662.8	1677.2	1677.2	1680.7
35°	1218.0	1440.4	1583.9	1598.2	1614.4	1601.8	1609.0	1610.7	1619.7	1625.1	1623.3
37.5°	1076.2	1370.4	1533.6	1544.4	1557.0	1540.9	1551.5	1557.0	1564.1	1560.6	1560.6
40°	950.7	1261.0	1474.4	1481.7	1492.4	1479.8	1490.6	1494.1	1497.8	1494.1	1492.4
42.5°	857.4	1140.8	1411.7	1420.7	1413.5	1422.5	1426.0	1433.2	1427.8	1420.7	1420.7
45°	785.7	1108.6	1343.5	1354.3	1343.5	1357.8	1363.3	1363.3	1347.1	1343.5	1341.7
47.5°	762.3	1043.9	1275.4	1275.4	1269.9	1287.9	1296.8	1284.3	1268.1	1262.8	1262.8
50°	760.5	972.2	1182.0	1174.9	1200.0	1221.5	1212.6	1200.0	1187.5	1167.7	1167.7
52.5°	690.5	884.3	1061.8	1088.8	1128.3	1140.8	1126.5	1113.9	1092.3	1083.4	1076.2
55°	640.4	792.8	952.5	1006.3	1047.5	1063.7	1036.8	1024.2	992.0	986.5	983.0
57.5°	629.6	660.1	852.0	920.2	970.4	968.6	952.5	929.1	902.3	896.8	895.1
60°	577.6	477.1	744.4	825.1	877.1	871.8	857.4	835.9	810.8	807.2	803.6
62.5°	523.7	346.2	622.4	713.9	787.5	785.7	773.1	740.8	722.9	713.9	706.7
65°	444.9	290.6	443.1	593.7	699.6	703.1	676.2	652.9	633.2	622.4	620.7
67.5°	339.0	236.8	299.5	495.0	615.2	611.7	577.6	566.8	541.7	536.3	525.5
70°	251.1	157.9	208.1	401.8	532.8	523.7	496.8	484.4	461.0	448.4	441.3
72.5°	208.1	127.4	152.4	312.1	448.4	437.6	414.4	400.0	380.3	369.5	362.3
75°	168.6	134.5	116.6	231.4	364.1	357.0	335.5	321.1	304.9	290.6	292.4
77.5°	123.7	125.5	93.2	170.4	288.7	278.1	265.5	247.6	240.3	226.0	226.0
80°	93.2	98.7	70.0	116.6	208.1	208.1	197.3	184.7	172.2	165.0	165.0
82.5°	62.8	62.8	52.0	73.5	141.7	136.3	129.2	125.5	118.4	114.8	114.8
85°	28.7	35.8	32.3	44.8	77.1	80.7	80.7	77.1	75.3	71.8	73.5
87.5°	9.0	16.1	19.7	25.1	39.5	41.3	43.1	43.1	43.1	44.8	44.8
90°	1.4	2.4	3.5	3.8	6.0	8.9	10.3	9.1	6.9	5.2	5.2
92.5°	5.4	14.7	23.9	26.2	36.9	51.1	58.2	51.0	36.6	25.8	24.8
95°	13.0	30.0	46.9	51.1	90.8	143.6	170.1	151.8	115.1	87.7	84.6
97.5°	22.5	37.5	52.4	56.1	122.3	210.4	254.5	242.9	219.9	202.5	196.6
100°	30.0	43.4	57.0	60.4	133.8	231.6	280.5	281.3	283.0	284.3	277.3
102.5°	36.2	48.9	61.5	64.6	139.0	238.2	287.8	302.6	332.1	354.3	348.2
105°	46.8	57.5	68.2	70.9	142.9	239.0	287.0	320.1	386.2	435.8	432.6
107.5°	57.7	67.6	77.6	80.1	143.6	228.4	270.7	316.9	409.1	478.3	479.1
110°	65.0	74.0	83.0	85.3	142.6	219.0	257.2	308.8	411.8	489.1	492.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	72.2	80.8	89.3	91.5	142.6	210.7	244.8	297.5	403.1	482.2	487.3
115°	83.1	91.1	98.9	100.9	143.9	201.2	229.9	280.8	382.4	458.6	465.9
117.5°	93.9	101.0	108.2	110.0	146.5	195.3	219.8	265.7	357.4	426.1	434.1
120°	100.1	106.9	113.6	115.3	148.8	193.4	215.7	257.6	341.4	404.3	412.1
122.5°	106.2	113.1	119.8	121.6	151.9	192.3	212.5	250.3	325.8	382.4	390.1
125°	115.6	121.8	128.1	129.6	156.1	191.5	209.2	241.2	305.4	353.5	360.5
127.5°	123.2	129.4	135.8	137.3	160.3	191.0	206.3	233.8	288.9	330.2	336.2
130°	127.3	134.1	140.8	142.5	163.4	191.3	205.2	229.7	278.7	315.4	321.0
132.5°	131.5	138.3	145.0	146.7	165.9	191.5	204.3	226.2	270.1	303.0	307.8
135°	137.8	143.9	150.1	151.6	168.6	191.4	202.7	221.0	257.8	285.3	289.6
137.5°	144.2	150.3	156.3	157.9	172.7	192.5	202.4	218.0	249.0	272.3	275.7
140°	149.4	155.1	160.7	162.1	175.2	192.7	201.4	214.8	241.7	261.8	265.0
142.5°	153.5	158.7	163.9	165.2	177.2	193.3	201.4	213.2	236.8	254.4	257.2
145°	159.8	164.3	168.8	170.0	180.0	193.3	200.0	209.6	228.9	243.4	245.5
147.5°	166.0	170.4	174.9	176.0	184.0	194.7	200.0	207.6	222.8	234.2	235.9
150°	170.1	174.1	178.1	179.1	186.1	195.4	200.0	206.5	219.2	228.8	230.3
152.5°	174.3	177.3	180.4	181.1	187.5	195.9	200.0	205.5	216.4	224.7	225.7
155°	180.6	182.8	185.1	185.6	190.4	196.9	200.0	204.4	213.1	219.6	220.3
157.5°	185.2	187.4	189.5	190.1	193.4	197.9	200.0	203.4	210.2	215.2	215.8
160°	188.4	190.1	191.7	192.2	194.8	198.3	200.0	202.9	208.7	213.1	213.3
162.5°	191.4	192.7	194.0	194.3	196.2	198.8	200.0	202.5	207.4	211.1	211.4
165°	194.9	196.0	197.1	197.4	198.3	199.5	200.0	201.8	205.3	207.9	208.2
167.5°	198.0	198.5	199.0	199.2	200.0	200.9	201.4	202.6	204.8	206.6	206.6
170°	200.0	200.6	201.1	201.2	201.3	201.4	201.4	202.6	204.8	206.6	206.6
172.5°	201.1	201.2	201.4	201.4	201.4	201.4	201.4	202.3	204.1	205.5	205.4
175°	202.7	202.7	202.7	202.7	202.2	201.7	201.4	201.9	203.1	204.0	204.0
177.5°	202.7	202.7	202.7	202.7	202.3	201.9	201.7	202.1	203.0	203.8	203.7
180°	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1944.4	1939.0	1944.4	1940.8	1942.7	1937.2	1921.1	1915.7	1921.1	1926.5	1926.5
5°	1967.7	1964.1	1967.7	1967.7	1965.9	1962.3	1944.4	1940.8	1944.4	1946.2	1942.7
7.5°	1974.9	1969.5	1974.9	1971.4	1971.4	1967.7	1949.8	1946.2	1948.0	1953.3	1948.0
10°	1974.9	1969.5	1974.9	1973.1	1971.4	1967.7	1949.8	1942.7	1942.7	1948.0	1942.7
12.5°	1965.9	1962.3	1965.9	1962.3	1962.3	1958.8	1940.8	1933.6	1935.4	1937.2	1930.1
15°	1951.6	1946.2	1951.6	1948.0	1949.8	1944.4	1924.6	1917.5	1917.5	1921.1	1908.5
17.5°	1930.1	1922.9	1930.1	1928.3	1926.5	1922.9	1904.9	1897.8	1896.0	1897.8	1888.8
20°	1904.9	1899.6	1904.9	1903.2	1903.2	1896.0	1878.0	1869.1	1869.1	1869.1	1860.1
22.5°	1865.4	1860.1	1865.4	1869.1	1869.1	1867.3	1851.1	1838.6	1835.0	1835.0	1824.3
25°	1820.6	1815.3	1820.6	1820.6	1818.8	1820.6	1815.3	1808.1	1802.7	1797.3	1786.5
27.5°	1777.6	1774.0	1777.6	1774.0	1777.6	1772.2	1770.4	1768.6	1761.4	1756.1	1741.7
30°	1734.6	1730.9	1734.6	1730.9	1727.4	1723.8	1714.8	1711.2	1718.4	1714.8	1691.5
32.5°	1680.7	1677.2	1680.7	1680.7	1677.2	1677.2	1662.8	1657.4	1659.2	1669.9	1648.5
35°	1625.1	1619.7	1625.1	1623.3	1625.1	1619.7	1610.7	1609.0	1601.8	1614.4	1598.2
37.5°	1560.6	1555.2	1560.6	1560.6	1560.6	1564.1	1557.0	1551.5	1540.9	1557.0	1544.4
40°	1494.1	1487.0	1494.1	1492.4	1494.1	1497.8	1494.1	1490.6	1479.8	1492.4	1481.7
42.5°	1418.8	1417.0	1418.8	1420.7	1420.7	1427.8	1433.2	1426.0	1422.5	1413.5	1420.7
45°	1338.1	1334.6	1338.1	1341.7	1343.5	1347.1	1363.3	1363.3	1357.8	1343.5	1354.3
47.5°	1252.0	1243.1	1252.0	1262.8	1262.8	1268.1	1284.3	1296.8	1287.9	1269.9	1275.4
50°	1160.5	1162.3	1160.5	1167.7	1167.7	1187.5	1200.0	1212.6	1221.5	1200.0	1174.9
52.5°	1070.9	1069.1	1070.9	1076.2	1083.4	1092.3	1113.9	1126.5	1140.8	1128.3	1088.8
55°	981.2	984.7	981.2	983.0	986.5	992.0	1024.2	1036.8	1063.7	1047.5	1006.3
57.5°	891.5	886.1	891.5	895.1	896.8	902.3	929.1	952.5	968.6	970.4	920.2
60°	787.5	780.2	787.5	803.6	807.2	810.8	835.9	857.4	871.8	877.1	825.1
62.5°	696.0	683.4	696.0	706.7	713.9	722.9	740.8	773.1	785.7	787.5	713.9
65°	599.1	593.7	599.1	620.7	622.4	633.2	652.9	676.2	703.1	699.6	593.7
67.5°	511.2	511.2	511.2	525.5	536.3	541.7	566.8	577.6	611.7	615.2	495.0
70°	430.5	428.7	430.5	441.3	448.4	461.0	484.4	496.8	523.7	532.8	401.8
72.5°	353.4	351.6	353.4	362.3	369.5	380.3	400.0	414.4	437.6	448.4	312.1
75°	285.2	281.6	285.2	292.4	290.6	304.9	321.1	335.5	357.0	364.1	231.4
77.5°	218.9	218.9	218.9	226.0	226.0	240.3	247.6	265.5	278.1	288.7	170.4
80°	163.2	161.5	163.2	165.0	165.0	172.2	184.7	197.3	208.1	208.1	116.6
82.5°	114.8	111.2	114.8	114.8	114.8	118.4	125.5	129.2	136.3	141.7	73.5
85°	71.8	71.8	71.8	73.5	71.8	75.3	77.1	80.7	80.7	77.1	44.8
87.5°	46.6	44.8	46.6	44.8	44.8	43.1	43.1	43.1	41.3	39.5	25.1
90°	5.2	5.2	5.2	5.2	5.2	6.9	9.1	10.3	8.9	6.0	3.8
92.5°	20.6	16.6	20.6	24.8	25.8	36.6	51.0	58.2	51.1	36.9	26.2
95°	72.1	59.7	72.1	84.6	87.7	115.1	151.8	170.1	143.6	90.8	51.1
97.5°	172.9	149.2	172.9	196.6	202.5	219.9	242.9	254.5	210.4	122.3	56.1
100°	249.1	220.9	249.1	277.3	284.3	283.0	281.3	280.5	231.6	133.8	60.4
102.5°	324.0	299.9	324.0	348.2	354.3	332.1	302.6	287.8	238.2	139.0	64.6
105°	419.6	406.6	419.6	432.6	435.8	386.2	320.1	287.0	239.0	142.9	70.9
107.5°	482.2	485.3	482.2	479.1	478.3	409.1	316.9	270.7	228.4	143.6	80.1
110°	506.1	519.7	506.1	492.5	489.1	411.8	308.8	257.2	219.0	142.6	85.3



TEST NUMBER: P934063

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	508.2	529.0	508.2	487.3	482.2	403.1	297.5	244.8	210.7	142.6	91.5
115°	494.7	523.5	494.7	465.9	458.6	382.4	280.8	229.9	201.2	143.9	100.9
117.5°	466.2	498.1	466.2	434.1	426.1	357.4	265.7	219.8	195.3	146.5	110.0
120°	443.2	474.2	443.2	412.1	404.3	341.4	257.6	215.7	193.4	148.8	115.3
122.5°	420.7	451.3	420.7	390.1	382.4	325.8	250.3	212.5	192.3	151.9	121.6
125°	388.7	416.9	388.7	360.5	353.5	305.4	241.2	209.2	191.5	156.1	129.6
127.5°	360.0	383.8	360.0	336.2	330.2	288.9	233.8	206.3	191.0	160.3	137.3
130°	343.0	365.0	343.0	321.0	315.4	278.7	229.7	205.2	191.3	163.4	142.5
132.5°	327.6	347.3	327.6	307.8	303.0	270.1	226.2	204.3	191.5	165.9	146.7
135°	306.5	323.5	306.5	289.6	285.3	257.8	221.0	202.7	191.4	168.6	151.6
137.5°	289.7	303.5	289.7	275.7	272.3	249.0	218.0	202.4	192.5	172.7	157.9
140°	278.0	291.0	278.0	265.0	261.8	241.7	214.8	201.4	192.7	175.2	162.1
142.5°	268.4	279.6	268.4	257.2	254.4	236.8	213.2	201.4	193.3	177.2	165.2
145°	254.0	262.5	254.0	245.5	243.4	228.9	209.6	200.0	193.3	180.0	170.0
147.5°	242.9	249.9	242.9	235.9	234.2	222.8	207.6	200.0	194.7	184.0	176.0
150°	236.0	241.7	236.0	230.3	228.8	219.2	206.5	200.0	195.4	186.1	179.1
152.5°	230.0	234.3	230.0	225.7	224.7	216.4	205.5	200.0	195.9	187.5	181.1
155°	223.1	226.0	223.1	220.3	219.6	213.1	204.4	200.0	196.9	190.4	185.6
157.5°	217.8	219.8	217.8	215.8	215.2	210.2	203.4	200.0	197.9	193.4	190.1
160°	214.5	215.7	214.5	213.3	213.1	208.7	202.9	200.0	198.3	194.8	192.2
162.5°	212.4	213.5	212.4	211.4	211.1	207.4	202.5	200.0	198.8	196.2	194.3
165°	209.4	210.5	209.4	208.2	207.9	205.3	201.8	200.0	199.5	198.3	197.4
167.5°	207.2	207.6	207.2	206.6	206.6	204.8	202.6	201.4	200.9	200.0	199.2
170°	206.6	206.6	206.6	206.6	206.6	204.8	202.6	201.4	201.4	201.3	201.2
172.5°	204.9	204.6	204.9	205.4	205.5	204.1	202.3	201.4	201.4	201.4	201.4
175°	204.0	204.0	204.0	204.0	204.0	203.1	201.9	201.4	201.7	202.2	202.7
177.5°	203.1	202.7	203.1	203.7	203.8	203.0	202.1	201.7	201.9	202.3	202.7
180°	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7



TEST NUMBER: P934063

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1922.9	1912.2	1912.2	1894.1	1887.0	1881.6	1872.7	1845.7	1838.6	1831.4	1842.2
5°	1939.0	1919.3	1904.9	1872.7	1845.7	1835.0	1800.9	1736.4	1693.3	1661.0	1643.0
7.5°	1942.7	1917.5	1890.6	1840.4	1775.8	1747.1	1643.0	1524.7	1492.4	1463.6	1445.7
10°	1939.0	1910.3	1872.7	1797.3	1644.9	1594.6	1490.6	1413.5	1393.8	1388.3	1393.8
12.5°	1926.5	1899.6	1847.5	1722.0	1508.5	1474.4	1413.5	1368.6	1365.1	1374.0	1422.5
15°	1904.9	1879.8	1818.8	1621.5	1433.2	1408.1	1365.1	1348.9	1368.6	1431.4	1576.7
17.5°	1883.5	1854.7	1779.4	1522.8	1375.8	1357.8	1327.3	1359.6	1470.9	1555.2	1603.6
20°	1854.7	1820.6	1734.6	1451.2	1334.6	1318.4	1304.1	1449.3	1533.6	1564.1	1591.0
22.5°	1820.6	1784.8	1673.6	1400.9	1291.5	1278.9	1287.9	1499.6	1533.6	1555.2	1578.5
25°	1775.8	1745.3	1601.8	1361.5	1257.4	1243.1	1277.2	1494.1	1513.9	1519.3	1565.9
27.5°	1734.6	1695.1	1526.5	1325.6	1216.2	1210.7	1286.1	1470.9	1485.2	1490.6	1540.9
30°	1684.3	1625.1	1442.2	1287.9	1173.1	1171.3	1287.9	1442.2	1438.6	1453.0	1503.1
32.5°	1632.3	1521.1	1347.1	1241.2	1131.8	1130.1	1275.4	1399.1	1395.5	1415.2	1453.0
35°	1583.9	1440.4	1218.0	1187.5	1079.9	1081.6	1244.9	1348.9	1350.7	1368.6	1392.0
37.5°	1533.6	1370.4	1076.2	1128.3	1029.6	1029.6	1203.6	1302.3	1298.6	1304.1	1336.3
40°	1474.4	1261.0	950.7	1051.2	983.0	977.6	1153.4	1252.0	1239.4	1237.7	1282.5
42.5°	1411.7	1140.8	857.4	948.9	929.1	922.0	1092.3	1191.0	1167.7	1173.1	1230.5
45°	1343.5	1108.6	785.7	801.8	873.6	868.1	1026.0	1121.0	1104.9	1119.3	1178.5
47.5°	1275.4	1043.9	762.3	665.5	814.4	812.6	952.5	1052.9	1043.9	1058.3	1121.0
50°	1182.0	972.2	760.5	570.4	748.0	755.2	864.6	986.5	986.5	999.1	1065.5
52.5°	1061.8	884.3	690.5	516.6	670.8	692.4	787.5	929.1	932.8	945.3	1004.5
55°	952.5	792.8	640.4	475.3	579.4	626.0	712.1	870.0	877.1	889.7	943.5
57.5°	852.0	660.1	629.6	426.9	495.0	539.9	645.7	812.6	816.2	827.0	878.9
60°	744.4	477.1	577.6	374.9	421.5	455.6	584.7	744.4	757.0	764.1	808.9
62.5°	622.4	346.2	523.7	339.0	385.7	392.8	534.5	679.9	696.0	701.3	728.3
65°	443.1	290.6	444.9	308.5	347.9	349.8	480.7	613.4	627.8	636.8	656.5
67.5°	299.5	236.8	339.0	279.8	319.3	321.1	428.7	536.3	556.0	563.2	575.8
70°	208.1	157.9	251.1	249.4	287.0	290.6	373.1	466.3	484.4	489.7	496.8
72.5°	152.4	127.4	208.1	224.2	252.9	256.5	315.7	387.4	405.4	410.8	414.4
75°	116.6	134.5	168.6	195.5	215.2	217.1	258.3	315.7	328.2	331.8	333.6
77.5°	93.2	125.5	123.7	157.9	175.8	172.2	202.7	243.9	254.7	254.7	254.7
80°	70.0	98.7	93.2	113.0	129.2	125.5	145.3	174.0	177.6	181.1	179.4
82.5°	52.0	62.8	62.8	71.8	86.1	82.6	96.9	113.0	113.0	113.0	116.6
85°	32.3	35.8	28.7	37.7	48.4	46.6	53.9	61.0	62.8	62.8	59.2
87.5°	19.7	16.1	9.0	14.4	21.5	21.5	25.1	26.9	25.1	25.1	25.1
90°	3.5	2.4	1.4	2.4	3.5	3.8	6.0	8.9	10.3	9.1	6.9
92.5°	23.9	14.7	5.4	14.7	23.9	26.2	36.9	51.1	58.2	51.0	36.6
95°	46.9	30.0	13.0	30.0	46.9	51.1	90.8	143.6	170.1	151.8	115.1
97.5°	52.4	37.5	22.5	37.5	52.4	56.1	122.3	210.4	254.5	242.9	219.9
100°	57.0	43.4	30.0	43.4	57.0	60.4	133.8	231.6	280.5	281.3	283.0
102.5°	61.5	48.9	36.2	48.9	61.5	64.6	139.0	238.2	287.8	302.6	332.1
105°	68.2	57.5	46.8	57.5	68.2	70.9	142.9	239.0	287.0	320.1	386.2
107.5°	77.6	67.6	57.7	67.6	77.6	80.1	143.6	228.4	270.7	316.9	409.1
110°	83.0	74.0	65.0	74.0	83.0	85.3	142.6	219.0	257.2	308.8	411.8



TEST NUMBER: P934063

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	89.3	80.8	72.2	80.8	89.3	91.5	142.6	210.7	244.8	297.5	403.1
115°	98.9	91.1	83.1	91.1	98.9	100.9	143.9	201.2	229.9	280.8	382.4
117.5°	108.2	101.0	93.9	101.0	108.2	110.0	146.5	195.3	219.8	265.7	357.4
120°	113.6	106.9	100.1	106.9	113.6	115.3	148.8	193.4	215.7	257.6	341.4
122.5°	119.8	113.1	106.2	113.1	119.8	121.6	151.9	192.3	212.5	250.3	325.8
125°	128.1	121.8	115.6	121.8	128.1	129.6	156.1	191.5	209.2	241.2	305.4
127.5°	135.8	129.4	123.2	129.4	135.8	137.3	160.3	191.0	206.3	233.8	288.9
130°	140.8	134.1	127.3	134.1	140.8	142.5	163.4	191.3	205.2	229.7	278.7
132.5°	145.0	138.3	131.5	138.3	145.0	146.7	165.9	191.5	204.3	226.2	270.1
135°	150.1	143.9	137.8	143.9	150.1	151.6	168.6	191.4	202.7	221.0	257.8
137.5°	156.3	150.3	144.2	150.3	156.3	157.9	172.7	192.5	202.4	218.0	249.0
140°	160.7	155.1	149.4	155.1	160.7	162.1	175.2	192.7	201.4	214.8	241.7
142.5°	163.9	158.7	153.5	158.7	163.9	165.2	177.2	193.3	201.4	213.2	236.8
145°	168.8	164.3	159.8	164.3	168.8	170.0	180.0	193.3	200.0	209.6	228.9
147.5°	174.9	170.4	166.0	170.4	174.9	176.0	184.0	194.7	200.0	207.6	222.8
150°	178.1	174.1	170.1	174.1	178.1	179.1	186.1	195.4	200.0	206.5	219.2
152.5°	180.4	177.3	174.3	177.3	180.4	181.1	187.5	195.9	200.0	205.5	216.4
155°	185.1	182.8	180.6	182.8	185.1	185.6	190.4	196.9	200.0	204.4	213.1
157.5°	189.5	187.4	185.2	187.4	189.5	190.1	193.4	197.9	200.0	203.4	210.2
160°	191.7	190.1	188.4	190.1	191.7	192.2	194.8	198.3	200.0	202.9	208.7
162.5°	194.0	192.7	191.4	192.7	194.0	194.3	196.2	198.8	200.0	202.5	207.4
165°	197.1	196.0	194.9	196.0	197.1	197.4	198.3	199.5	200.0	201.8	205.3
167.5°	199.0	198.5	198.0	198.5	199.0	199.2	200.0	200.9	201.4	202.6	204.8
170°	201.1	200.6	200.0	200.6	201.1	201.2	201.3	201.4	201.4	202.6	204.8
172.5°	201.4	201.2	201.1	201.2	201.4	201.4	201.4	201.4	201.4	202.3	204.1
175°	202.7	202.7	202.7	202.7	202.7	202.7	202.2	201.7	201.4	201.9	203.1
177.5°	202.7	202.7	202.7	202.7	202.7	202.7	202.3	201.9	201.7	202.1	203.0
180°	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7



TEST NUMBER: P934063

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1829.6	1824.3	1831.4	1811.7	1831.4	1824.3	1829.6	1842.2	1831.4	1838.6	1845.7
5°	1605.4	1596.4	1567.7	1544.4	1567.7	1596.4	1605.4	1643.0	1661.0	1693.3	1736.4
7.5°	1435.0	1427.8	1420.7	1406.3	1420.7	1427.8	1435.0	1445.7	1463.6	1492.4	1524.7
10°	1397.3	1399.1	1409.9	1408.1	1409.9	1399.1	1397.3	1393.8	1388.3	1393.8	1413.5
12.5°	1494.1	1510.4	1569.5	1565.9	1569.5	1510.4	1494.1	1422.5	1374.0	1365.1	1368.6
15°	1605.4	1610.7	1623.3	1625.1	1623.3	1610.7	1605.4	1576.7	1431.4	1368.6	1348.9
17.5°	1616.2	1618.0	1626.9	1626.9	1626.9	1618.0	1616.2	1603.6	1555.2	1470.9	1359.6
20°	1607.2	1610.7	1628.7	1632.3	1628.7	1610.7	1607.2	1591.0	1564.1	1533.6	1449.3
22.5°	1603.6	1610.7	1625.1	1623.3	1625.1	1610.7	1603.6	1578.5	1555.2	1533.6	1499.6
25°	1585.7	1585.7	1587.5	1589.3	1587.5	1585.7	1585.7	1565.9	1519.3	1513.9	1494.1
27.5°	1548.0	1551.5	1562.3	1560.6	1562.3	1551.5	1548.0	1540.9	1490.6	1485.2	1470.9
30°	1513.9	1510.4	1501.4	1494.1	1501.4	1510.4	1513.9	1503.1	1453.0	1438.6	1442.2
32.5°	1456.5	1447.5	1438.6	1433.2	1438.6	1447.5	1456.5	1453.0	1415.2	1395.5	1399.1
35°	1388.3	1390.1	1388.3	1383.0	1388.3	1390.1	1388.3	1392.0	1368.6	1350.7	1348.9
37.5°	1339.9	1343.5	1341.7	1334.6	1341.7	1343.5	1339.9	1336.3	1304.1	1298.6	1302.3
40°	1289.7	1291.5	1289.7	1284.3	1289.7	1291.5	1289.7	1282.5	1237.7	1239.4	1252.0
42.5°	1241.2	1239.4	1234.1	1230.5	1234.1	1239.4	1241.2	1230.5	1173.1	1167.7	1191.0
45°	1185.7	1187.5	1176.7	1171.3	1176.7	1187.5	1185.7	1178.5	1119.3	1104.9	1121.0
47.5°	1130.1	1130.1	1121.0	1115.7	1121.0	1130.1	1130.1	1121.0	1058.3	1043.9	1052.9
50°	1070.9	1069.1	1056.5	1054.7	1056.5	1069.1	1070.9	1065.5	999.1	986.5	986.5
52.5°	1002.7	1002.7	1004.5	1008.1	1004.5	1002.7	1002.7	1004.5	945.3	932.8	929.1
55°	943.5	945.3	957.8	961.5	957.8	945.3	943.5	943.5	889.7	877.1	870.0
57.5°	882.5	882.5	891.5	891.5	891.5	882.5	882.5	878.9	827.0	816.2	812.6
60°	812.6	816.2	823.3	821.5	823.3	816.2	812.6	808.9	764.1	757.0	744.4
62.5°	739.0	742.6	744.4	740.8	744.4	742.6	739.0	728.3	701.3	696.0	679.9
65°	661.9	665.5	667.3	663.7	667.3	665.5	661.9	656.5	636.8	627.8	613.4
67.5°	582.9	581.2	579.4	586.5	579.4	581.2	582.9	575.8	563.2	556.0	536.3
70°	502.3	502.3	500.5	504.0	500.5	502.3	502.3	496.8	489.7	484.4	466.3
72.5°	416.1	414.4	421.5	416.1	421.5	414.4	416.1	414.4	410.8	405.4	387.4
75°	331.8	335.5	331.8	337.3	331.8	335.5	331.8	333.6	331.8	328.2	315.7
77.5°	252.9	256.5	252.9	252.9	252.9	256.5	252.9	254.7	254.7	254.7	243.9
80°	179.4	177.6	177.6	175.8	177.6	177.6	179.4	179.4	181.1	177.6	174.0
82.5°	114.8	113.0	113.0	116.6	113.0	113.0	114.8	116.6	113.0	113.0	113.0
85°	62.8	64.5	61.0	61.0	61.0	64.5	62.8	59.2	62.8	62.8	61.0
87.5°	23.4	21.5	21.5	21.5	21.5	21.5	23.4	25.1	25.1	25.1	26.9
90°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.9	9.1	10.3	8.9
92.5°	25.8	24.8	20.6	16.6	20.6	24.8	25.8	36.6	51.0	58.2	51.1
95°	87.7	84.6	72.1	59.7	72.1	84.6	87.7	115.1	151.8	170.1	143.6
97.5°	202.5	196.6	172.9	149.2	172.9	196.6	202.5	219.9	242.9	254.5	210.4
100°	284.3	277.3	249.1	220.9	249.1	277.3	284.3	283.0	281.3	280.5	231.6
102.5°	354.3	348.2	324.0	299.9	324.0	348.2	354.3	332.1	302.6	287.8	238.2
105°	435.8	432.6	419.6	406.6	419.6	432.6	435.8	386.2	320.1	287.0	239.0
107.5°	478.3	479.1	482.2	485.3	482.2	479.1	478.3	409.1	316.9	270.7	228.4
110°	489.1	492.5	506.1	519.7	506.1	492.5	489.1	411.8	308.8	257.2	219.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	482.2	487.3	508.2	529.0	508.2	487.3	482.2	403.1	297.5	244.8	210.7
115°	458.6	465.9	494.7	523.5	494.7	465.9	458.6	382.4	280.8	229.9	201.2
117.5°	426.1	434.1	466.2	498.1	466.2	434.1	426.1	357.4	265.7	219.8	195.3
120°	404.3	412.1	443.2	474.2	443.2	412.1	404.3	341.4	257.6	215.7	193.4
122.5°	382.4	390.1	420.7	451.3	420.7	390.1	382.4	325.8	250.3	212.5	192.3
125°	353.5	360.5	388.7	416.9	388.7	360.5	353.5	305.4	241.2	209.2	191.5
127.5°	330.2	336.2	360.0	383.8	360.0	336.2	330.2	288.9	233.8	206.3	191.0
130°	315.4	321.0	343.0	365.0	343.0	321.0	315.4	278.7	229.7	205.2	191.3
132.5°	303.0	307.8	327.6	347.3	327.6	307.8	303.0	270.1	226.2	204.3	191.5
135°	285.3	289.6	306.5	323.5	306.5	289.6	285.3	257.8	221.0	202.7	191.4
137.5°	272.3	275.7	289.7	303.5	289.7	275.7	272.3	249.0	218.0	202.4	192.5
140°	261.8	265.0	278.0	291.0	278.0	265.0	261.8	241.7	214.8	201.4	192.7
142.5°	254.4	257.2	268.4	279.6	268.4	257.2	254.4	236.8	213.2	201.4	193.3
145°	243.4	245.5	254.0	262.5	254.0	245.5	243.4	228.9	209.6	200.0	193.3
147.5°	234.2	235.9	242.9	249.9	242.9	235.9	234.2	222.8	207.6	200.0	194.7
150°	228.8	230.3	236.0	241.7	236.0	230.3	228.8	219.2	206.5	200.0	195.4
152.5°	224.7	225.7	230.0	234.3	230.0	225.7	224.7	216.4	205.5	200.0	195.9
155°	219.6	220.3	223.1	226.0	223.1	220.3	219.6	213.1	204.4	200.0	196.9
157.5°	215.2	215.8	217.8	219.8	217.8	215.8	215.2	210.2	203.4	200.0	197.9
160°	213.1	213.3	214.5	215.7	214.5	213.3	213.1	208.7	202.9	200.0	198.3
162.5°	211.1	211.4	212.4	213.5	212.4	211.4	211.1	207.4	202.5	200.0	198.8
165°	207.9	208.2	209.4	210.5	209.4	208.2	207.9	205.3	201.8	200.0	199.5
167.5°	206.6	206.6	207.2	207.6	207.2	206.6	206.6	204.8	202.6	201.4	200.9
170°	206.6	206.6	206.6	206.6	206.6	206.6	206.6	204.8	202.6	201.4	201.4
172.5°	205.5	205.4	204.9	204.6	204.9	205.4	205.5	204.1	202.3	201.4	201.4
175°	204.0	204.0	204.0	204.0	204.0	204.0	204.0	203.1	201.9	201.4	201.7
177.5°	203.8	203.7	203.1	202.7	203.1	203.7	203.8	203.0	202.1	201.7	201.9
180°	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1872.7	1881.6	1887.0	1894.1	1912.2
5°	1800.9	1835.0	1845.7	1872.7	1904.9
7.5°	1643.0	1747.1	1775.8	1840.4	1890.6
10°	1490.6	1594.6	1644.9	1797.3	1872.7
12.5°	1413.5	1474.4	1508.5	1722.0	1847.5
15°	1365.1	1408.1	1433.2	1621.5	1818.8
17.5°	1327.3	1357.8	1375.8	1522.8	1779.4
20°	1304.1	1318.4	1334.6	1451.2	1734.6
22.5°	1287.9	1278.9	1291.5	1400.9	1673.6
25°	1277.2	1243.1	1257.4	1361.5	1601.8
27.5°	1286.1	1210.7	1216.2	1325.6	1526.5
30°	1287.9	1171.3	1173.1	1287.9	1442.2
32.5°	1275.4	1130.1	1131.8	1241.2	1347.1
35°	1244.9	1081.6	1079.9	1187.5	1218.0
37.5°	1203.6	1029.6	1029.6	1128.3	1076.2
40°	1153.4	977.6	983.0	1051.2	950.7
42.5°	1092.3	922.0	929.1	948.9	857.4
45°	1026.0	868.1	873.6	801.8	785.7
47.5°	952.5	812.6	814.4	665.5	762.3
50°	864.6	755.2	748.0	570.4	760.5
52.5°	787.5	692.4	670.8	516.6	690.5
55°	712.1	626.0	579.4	475.3	640.4
57.5°	645.7	539.9	495.0	426.9	629.6
60°	584.7	455.6	421.5	374.9	577.6
62.5°	534.5	392.8	385.7	339.0	523.7
65°	480.7	349.8	347.9	308.5	444.9
67.5°	428.7	321.1	319.3	279.8	339.0
70°	373.1	290.6	287.0	249.4	251.1
72.5°	315.7	256.5	252.9	224.2	208.1
75°	258.3	217.1	215.2	195.5	168.6
77.5°	202.7	172.2	175.8	157.9	123.7
80°	145.3	125.5	129.2	113.0	93.2
82.5°	96.9	82.6	86.1	71.8	62.8
85°	53.9	46.6	48.4	37.7	28.7
87.5°	25.1	21.5	21.5	14.4	9.0
90°	6.0	3.8	3.5	2.4	1.4
92.5°	36.9	26.2	23.9	14.7	5.4
95°	90.8	51.1	46.9	30.0	13.0
97.5°	122.3	56.1	52.4	37.5	22.5
100°	133.8	60.4	57.0	43.4	30.0
102.5°	139.0	64.6	61.5	48.9	36.2
105°	142.9	70.9	68.2	57.5	46.8
107.5°	143.6	80.1	77.6	67.6	57.7
110°	142.6	85.3	83.0	74.0	65.0



TEST NUMBER: P934063

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	142.6	91.5	89.3	80.8	72.2
115°	143.9	100.9	98.9	91.1	83.1
117.5°	146.5	110.0	108.2	101.0	93.9
120°	148.8	115.3	113.6	106.9	100.1
122.5°	151.9	121.6	119.8	113.1	106.2
125°	156.1	129.6	128.1	121.8	115.6
127.5°	160.3	137.3	135.8	129.4	123.2
130°	163.4	142.5	140.8	134.1	127.3
132.5°	165.9	146.7	145.0	138.3	131.5
135°	168.6	151.6	150.1	143.9	137.8
137.5°	172.7	157.9	156.3	150.3	144.2
140°	175.2	162.1	160.7	155.1	149.4
142.5°	177.2	165.2	163.9	158.7	153.5
145°	180.0	170.0	168.8	164.3	159.8
147.5°	184.0	176.0	174.9	170.4	166.0
150°	186.1	179.1	178.1	174.1	170.1
152.5°	187.5	181.1	180.4	177.3	174.3
155°	190.4	185.6	185.1	182.8	180.6
157.5°	193.4	190.1	189.5	187.4	185.2
160°	194.8	192.2	191.7	190.1	188.4
162.5°	196.2	194.3	194.0	192.7	191.4
165°	198.3	197.4	197.1	196.0	194.9
167.5°	200.0	199.2	199.0	198.5	198.0
170°	201.3	201.2	201.1	200.6	200.0
172.5°	201.4	201.4	201.4	201.2	201.1
175°	202.2	202.7	202.7	202.7	202.7
177.5°	202.3	202.7	202.7	202.7	202.7
180°	202.7	202.7	202.7	202.7	202.7



TEST NUMBER: P934063
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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	15.69	16.89	16.35	17.57	18.36	18.52	19.71	19.18	20.39	21.18
	3H	16.19	17.27	16.87	17.96	18.78	19.88	20.96	20.56	21.65	22.47
	4H	16.40	17.41	17.09	18.11	18.95	20.34	21.36	21.04	22.06	22.89
	6H	16.54	17.47	17.24	18.18	19.03	20.64	21.58	21.35	22.29	23.14
	8H	16.55	17.44	17.27	18.17	19.02	20.73	21.62	21.45	22.35	23.20
	12H	16.53	17.38	17.25	18.10	18.98	20.78	21.63	21.50	22.35	23.23
4H	2H	16.76	17.78	17.46	18.48	19.31	18.97	19.98	19.66	20.68	21.52
	3H	17.82	18.67	18.53	19.40	20.26	20.50	21.35	21.21	22.08	22.94
	4H	18.11	18.88	18.84	19.62	20.50	21.04	21.81	21.77	22.55	23.43
	6H	18.25	18.92	19.00	19.68	20.58	21.42	22.09	22.17	22.85	23.75
	8H	18.27	18.89	19.02	19.65	20.55	21.54	22.16	22.29	22.92	23.82
	12H	18.25	18.81	19.02	19.60	20.50	21.61	22.17	22.38	22.95	23.86
8H	4H	18.59	19.21	19.34	19.97	20.88	21.19	21.81	21.94	22.58	23.48
	6H	18.87	19.38	19.65	20.18	21.09	21.64	22.16	22.42	22.96	23.87
	8H	18.91	19.37	19.70	20.17	21.09	21.80	22.25	22.59	23.06	23.98
	12H	18.91	19.32	19.70	20.11	21.09	21.91	22.31	22.70	23.11	24.09
12H	4H	18.61	19.17	19.38	19.96	20.86	21.17	21.73	21.94	22.52	23.43
	6H	18.93	19.39	19.72	20.19	21.11	21.64	22.10	22.43	22.90	23.83
	8H	19.01	19.42	19.81	20.21	21.19	21.82	22.22	22.61	23.02	24.00