

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: P933967

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933967
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

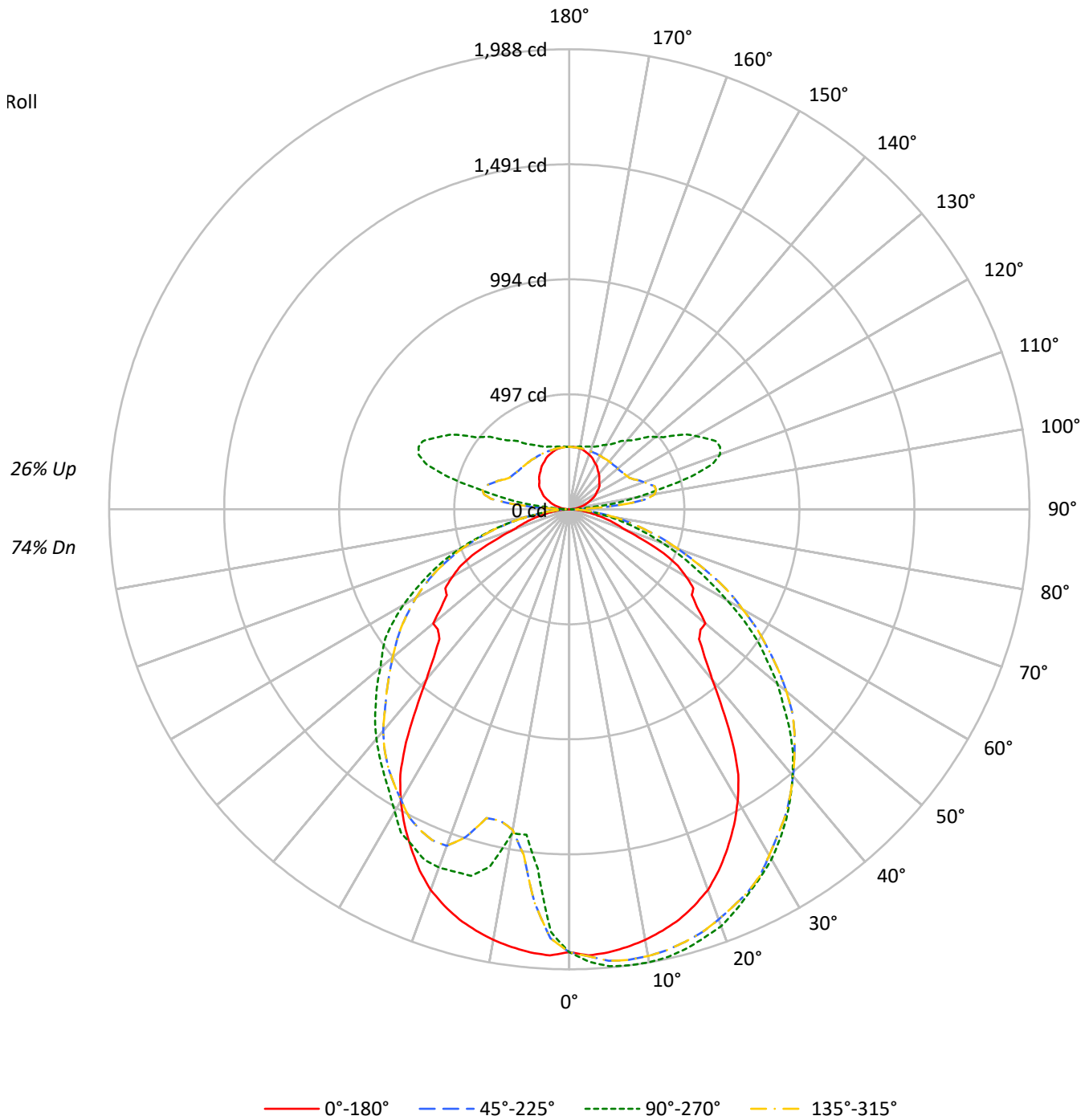
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6713.6 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8877	8877	8877	8877
5°	8944	8961	8944	7046
10°	8884	8827	8884	6311
15°	8787	8636	8787	7212
20°	8604	8410	8604	7226
25°	8227	8079	8227	7073
30°	7741	7805	7741	6737
35°	6901	7458	6901	6368
40°	5751	7049	5751	6088
45°	5138	6571	5138	5767
50°	5459	6001	5459	5446
55°	5136	5387	5136	5259
60°	5294	4575	5294	4817
65°	4801	3782	4801	4227
70°	3323	3014	3323	3544
75°	2915	2228	2915	2667
80°	2348	1473	2348	1604
85°	1351	780	1351	664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	2.6
10°-20°	490.4	7.3
20°-30°	758.1	11.3
30°-40°	905.0	13.5
40°-50°	910.3	13.6
50°-60°	792.1	11.8
60°-70°	561.6	8.4
70°-80°	297.1	4.4
80°-90°	75.0	1.1
90°-100°	131.7	2.0
100°-110°	346.2	5.2
110°-120°	359.0	5.3
120°-130°	288.0	4.3
130°-140°	225.9	3.4
140°-150°	173.4	2.6
150°-160°	124.9	1.9
160°-170°	76.4	1.1
170°-180°	25.8	0.4
0°-30°	1421.2	21.2
0°-40°	2326.1	34.6
0°-60°	4028.5	60.0
0°-90°	4962.2	73.9
90°-120°	836.9	12.5
90°-150°	1524.3	22.7
90°-180°	1751.0	26.1
0°-180°	6713.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1913	1913	1913	1913	1913	
5°	1922	1982	1922	1559	1922	182
15°	1836	1964	1836	1640	1836	516
25°	1616	1832	1616	1604	1616	742
35°	1229	1635	1229	1396	1229	760
45°	793	1347	793	1182	793	635
55°	646	994	646	970	646	594
65°	449	599	449	670	449	429
75°	170	284	170	340	170	179
85°	29	72	29	62	29	39
90°	2	7	2	7	2	3
95°	17	80	17	80	17	19
105°	62	542	62	542	62	66
115°	111	698	111	698	111	109
125°	154	556	154	556	154	137
135°	184	431	184	431	184	142
145°	213	350	213	350	213	133
155°	241	301	241	301	241	111
165°	260	281	260	281	260	73
175°	270	272	270	272	270	26
180°	270	270	270	270	270	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4
2.5°	1929.7	1929.7	1940.6	1944.2	1944.2	1938.8	1933.3	1938.8	1955.1	1960.5	1958.7
5°	1922.5	1937.0	1956.9	1960.5	1964.1	1962.3	1958.7	1962.3	1980.4	1984.0	1985.8
7.5°	1908.0	1935.1	1960.5	1965.9	1971.4	1965.9	1964.1	1967.7	1985.8	1989.5	1989.5
10°	1889.9	1927.9	1956.9	1960.5	1965.9	1960.5	1960.5	1967.7	1985.8	1989.5	1991.3
12.5°	1864.5	1917.0	1944.2	1947.8	1955.1	1953.2	1951.4	1958.7	1976.8	1980.4	1980.4
15°	1835.6	1897.1	1922.5	1926.1	1938.8	1935.1	1935.1	1942.4	1962.3	1967.7	1965.9
17.5°	1795.7	1871.8	1900.7	1906.2	1915.2	1913.4	1915.2	1922.5	1940.6	1944.2	1946.0
20°	1750.5	1837.4	1871.8	1877.2	1886.3	1886.3	1886.3	1895.3	1913.4	1920.7	1920.7
22.5°	1688.9	1801.2	1837.4	1841.0	1851.9	1851.9	1855.5	1868.2	1884.5	1886.3	1886.3
25°	1616.5	1761.4	1792.1	1803.0	1813.9	1819.3	1824.7	1832.0	1837.4	1835.6	1837.4
27.5°	1540.5	1710.7	1750.5	1757.7	1772.2	1777.6	1784.9	1786.7	1788.5	1793.9	1790.3
30°	1455.4	1640.1	1699.8	1707.0	1730.6	1734.2	1727.0	1730.6	1739.6	1743.2	1746.9
32.5°	1359.5	1535.1	1647.3	1663.6	1685.3	1674.5	1672.6	1678.1	1692.6	1692.6	1696.2
35°	1229.1	1453.6	1598.4	1612.9	1629.2	1616.5	1623.8	1625.6	1634.6	1640.1	1638.3
37.5°	1086.1	1383.0	1547.7	1558.6	1571.3	1555.0	1565.8	1571.3	1578.5	1574.9	1574.9
40°	959.5	1272.6	1488.0	1495.2	1506.1	1493.4	1504.3	1507.9	1511.5	1507.9	1506.1
42.5°	865.3	1151.3	1424.6	1433.7	1426.4	1435.5	1439.1	1446.4	1440.9	1433.7	1433.7
45°	792.9	1118.7	1355.8	1366.7	1355.8	1370.3	1375.8	1375.8	1359.5	1355.8	1354.0
47.5°	769.4	1053.6	1287.0	1287.0	1281.6	1299.7	1308.8	1296.1	1279.8	1274.4	1274.4
50°	767.6	981.2	1192.9	1185.7	1211.0	1232.7	1223.7	1211.0	1198.3	1178.4	1178.4
52.5°	697.0	892.5	1071.7	1098.8	1138.6	1151.3	1136.8	1124.1	1102.4	1093.3	1086.1
55°	646.3	800.2	961.3	1015.6	1057.2	1073.5	1046.4	1033.7	1001.1	995.7	992.1
57.5°	635.4	666.2	859.9	928.7	979.4	977.6	961.3	937.7	910.6	905.2	903.4
60°	582.9	481.5	751.3	832.7	885.2	879.8	865.3	843.6	818.3	814.6	811.0
62.5°	528.6	349.4	628.2	720.5	794.7	792.9	780.2	747.7	729.6	720.5	713.3
65°	449.0	293.3	447.1	599.2	706.0	709.6	682.5	659.0	639.0	628.2	626.4
67.5°	342.2	239.0	302.3	499.6	620.9	617.3	582.9	572.1	546.7	541.3	530.4
70°	253.4	159.3	210.0	405.5	537.7	528.6	501.5	488.8	465.3	452.6	445.3
72.5°	210.0	128.5	153.9	315.0	452.6	441.7	418.2	403.7	383.8	372.9	365.7
75°	170.2	135.8	117.7	233.5	367.5	360.3	338.5	324.0	307.8	293.3	295.1
77.5°	124.9	126.7	94.1	172.0	291.5	280.6	267.9	249.8	242.6	228.1	228.1
80°	94.1	99.6	70.6	117.7	210.0	210.0	199.1	186.5	173.8	166.5	166.5
82.5°	63.4	63.4	52.5	74.2	143.0	137.6	130.3	126.7	119.5	115.9	115.9
85°	29.0	36.2	32.6	45.3	77.8	81.5	81.5	77.8	76.0	72.4	74.2
87.5°	9.1	16.3	19.9	25.3	39.8	41.6	43.4	43.4	43.4	45.3	45.3
90°	1.8	3.3	4.7	5.1	8.0	11.9	13.8	12.2	9.1	6.9	6.9
92.5°	7.2	19.6	32.0	35.0	49.2	68.2	77.6	68.0	48.9	34.5	33.1
95°	17.4	39.9	62.5	68.2	121.0	191.5	226.8	202.4	153.6	116.9	112.8
97.5°	30.1	50.1	69.9	74.9	163.0	280.6	339.4	324.0	293.2	270.0	262.1
100°	39.9	57.9	75.9	80.5	178.3	308.8	374.0	375.2	377.5	379.2	369.8
102.5°	48.2	65.1	81.9	86.1	185.4	317.7	383.9	403.5	442.8	472.3	464.3
105°	62.4	76.7	91.0	94.5	190.6	318.7	382.8	426.9	515.0	581.1	576.8
107.5°	76.8	90.2	103.5	106.8	191.5	304.5	361.0	422.4	545.5	637.7	638.8
110°	86.7	98.7	110.7	113.7	190.1	291.9	342.9	411.6	549.1	652.2	656.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	96.3	107.7	119.1	122.0	190.2	281.0	326.4	396.7	537.4	642.9	649.9
115°	110.8	121.3	131.9	134.5	191.9	268.4	306.6	374.4	510.0	611.6	621.2
117.5°	125.1	134.7	144.3	146.7	195.5	260.5	293.0	354.2	476.5	568.3	578.9
120°	133.4	142.5	151.5	153.8	198.4	257.9	287.6	343.4	455.2	539.0	549.3
122.5°	141.6	150.7	159.9	162.1	202.6	256.4	283.4	333.7	434.4	509.9	520.1
125°	154.1	162.5	170.7	172.8	208.2	255.3	278.9	321.6	407.1	471.2	480.6
127.5°	164.3	172.6	181.0	183.1	213.8	254.6	275.1	311.8	385.2	440.3	448.2
130°	169.7	178.8	187.7	190.0	217.9	255.1	273.6	306.3	371.7	420.6	428.0
132.5°	175.3	184.4	193.3	195.6	221.2	255.3	272.4	301.6	360.1	404.0	410.6
135°	183.7	191.9	200.1	202.2	224.8	255.1	270.2	294.7	343.7	380.4	386.1
137.5°	192.2	200.3	208.5	210.5	230.3	256.6	269.8	290.6	331.9	363.0	367.6
140°	199.2	206.7	214.3	216.2	233.6	256.9	268.6	286.5	322.2	349.0	353.4
142.5°	204.7	211.6	218.6	220.3	236.4	257.9	268.6	284.3	315.7	339.3	343.0
145°	213.1	219.1	225.1	226.7	240.0	257.9	266.8	279.6	305.3	324.6	327.4
147.5°	221.4	227.3	233.2	234.6	245.3	259.6	266.8	276.9	297.1	312.2	314.5
150°	226.8	232.2	237.4	238.8	248.1	260.5	266.8	275.3	292.4	305.1	307.0
152.5°	232.4	236.4	240.5	241.5	249.9	261.1	266.8	274.0	288.6	299.5	301.0
155°	240.8	243.8	246.7	247.5	253.9	262.5	266.8	272.5	284.1	292.8	293.7
157.5°	246.9	249.8	252.7	253.4	257.9	263.8	266.8	271.3	280.2	287.0	287.7
160°	251.1	253.4	255.6	256.2	259.7	264.4	266.8	270.6	278.3	284.1	284.5
162.5°	255.3	257.0	258.6	259.1	261.6	265.0	266.8	270.0	276.5	281.4	281.8
165°	259.9	261.4	262.9	263.3	264.5	266.0	266.8	269.1	273.7	277.3	277.6
167.5°	264.0	264.8	265.5	265.7	266.7	267.9	268.6	270.1	273.2	275.4	275.6
170°	266.8	267.5	268.2	268.4	268.5	268.6	268.6	270.1	273.2	275.4	275.4
172.5°	268.2	268.4	268.6	268.6	268.6	268.6	268.6	269.7	272.2	274.0	273.8
175°	270.2	270.2	270.2	270.2	269.6	268.9	268.6	269.3	270.8	272.0	272.0
177.5°	270.2	270.2	270.2	270.2	269.7	269.2	268.9	269.6	270.7	271.6	271.5
180°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4
2.5°	1962.3	1956.9	1962.3	1958.7	1960.5	1955.1	1938.8	1933.3	1938.8	1944.2	1944.2
5°	1985.8	1982.2	1985.8	1985.8	1984.0	1980.4	1962.3	1958.7	1962.3	1964.1	1960.5
7.5°	1993.1	1987.6	1993.1	1989.5	1989.5	1985.8	1967.7	1964.1	1965.9	1971.4	1965.9
10°	1993.1	1987.6	1993.1	1991.3	1989.5	1985.8	1967.7	1960.5	1960.5	1965.9	1960.5
12.5°	1984.0	1980.4	1984.0	1980.4	1980.4	1976.8	1958.7	1951.4	1953.2	1955.1	1947.8
15°	1969.5	1964.1	1969.5	1965.9	1967.7	1962.3	1942.4	1935.1	1935.1	1938.8	1926.1
17.5°	1947.8	1940.6	1947.8	1946.0	1944.2	1940.6	1922.5	1915.2	1913.4	1915.2	1906.2
20°	1922.5	1917.0	1922.5	1920.7	1920.7	1913.4	1895.3	1886.3	1886.3	1886.3	1877.2
22.5°	1882.6	1877.2	1882.6	1886.3	1886.3	1884.5	1868.2	1855.5	1851.9	1851.9	1841.0
25°	1837.4	1832.0	1837.4	1837.4	1835.6	1837.4	1832.0	1824.7	1819.3	1813.9	1803.0
27.5°	1793.9	1790.3	1793.9	1790.3	1793.9	1788.5	1786.7	1784.9	1777.6	1772.2	1757.7
30°	1750.5	1746.9	1750.5	1746.9	1743.2	1739.6	1730.6	1727.0	1734.2	1730.6	1707.0
32.5°	1696.2	1692.6	1696.2	1696.2	1692.6	1692.6	1678.1	1672.6	1674.5	1685.3	1663.6
35°	1640.1	1634.6	1640.1	1638.3	1640.1	1634.6	1625.6	1623.8	1616.5	1629.2	1612.9
37.5°	1574.9	1569.5	1574.9	1574.9	1574.9	1578.5	1571.3	1565.8	1555.0	1571.3	1558.6
40°	1507.9	1500.7	1507.9	1506.1	1507.9	1511.5	1507.9	1504.3	1493.4	1506.1	1495.2
42.5°	1431.9	1430.1	1431.9	1433.7	1433.7	1440.9	1446.4	1439.1	1435.5	1426.4	1433.7
45°	1350.4	1346.8	1350.4	1354.0	1355.8	1359.5	1375.8	1375.8	1370.3	1355.8	1366.7
47.5°	1263.5	1254.5	1263.5	1274.4	1274.4	1279.8	1296.1	1308.8	1299.7	1281.6	1287.0
50°	1171.2	1173.0	1171.2	1178.4	1178.4	1198.3	1211.0	1223.7	1232.7	1211.0	1185.7
52.5°	1080.7	1079.0	1080.7	1086.1	1093.3	1102.4	1124.1	1136.8	1151.3	1138.6	1098.8
55°	990.2	993.9	990.2	992.1	995.7	1001.1	1033.7	1046.4	1073.5	1057.2	1015.6
57.5°	899.7	894.3	899.7	903.4	905.2	910.6	937.7	961.3	977.6	979.4	928.7
60°	794.7	787.5	794.7	811.0	814.6	818.3	843.6	865.3	879.8	885.2	832.7
62.5°	702.4	689.7	702.4	713.3	720.5	729.6	747.7	780.2	792.9	794.7	720.5
65°	604.6	599.2	604.6	626.4	628.2	639.0	659.0	682.5	709.6	706.0	599.2
67.5°	515.9	515.9	515.9	530.4	541.3	546.7	572.1	582.9	617.3	620.9	499.6
70°	434.5	432.7	434.5	445.3	452.6	465.3	488.8	501.5	528.6	537.7	405.5
72.5°	356.6	354.8	356.6	365.7	372.9	383.8	403.7	418.2	441.7	452.6	315.0
75°	287.8	284.2	287.8	295.1	293.3	307.8	324.0	338.5	360.3	367.5	233.5
77.5°	220.9	220.9	220.9	228.1	228.1	242.6	249.8	267.9	280.6	291.5	172.0
80°	164.7	162.9	164.7	166.5	166.5	173.8	186.5	199.1	210.0	210.0	117.7
82.5°	115.9	112.2	115.9	115.9	115.9	119.5	126.7	130.3	137.6	143.0	74.2
85°	72.4	72.4	72.4	74.2	72.4	76.0	77.8	81.5	81.5	77.8	45.3
87.5°	47.1	45.3	47.1	45.3	45.3	43.4	43.4	43.4	41.6	39.8	25.3
90°	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9	8.0	5.1
92.5°	27.6	22.1	27.6	33.1	34.5	48.9	68.0	77.6	68.2	49.2	35.0
95°	96.2	79.6	96.2	112.8	116.9	153.6	202.4	226.8	191.5	121.0	68.2
97.5°	230.5	198.9	230.5	262.1	270.0	293.2	324.0	339.4	280.6	163.0	74.9
100°	332.1	294.4	332.1	369.8	379.2	377.5	375.2	374.0	308.8	178.3	80.5
102.5°	432.0	399.8	432.0	464.3	472.3	442.8	403.5	383.9	317.7	185.4	86.1
105°	559.5	542.1	559.5	576.8	581.1	515.0	426.9	382.8	318.7	190.6	94.5
107.5°	642.9	647.1	642.9	638.8	637.7	545.5	422.4	361.0	304.5	191.5	106.8
110°	674.7	692.8	674.7	656.7	652.2	549.1	411.6	342.9	291.9	190.1	113.7



TEST NUMBER: P933967

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	677.6	705.3	677.6	649.9	642.9	537.4	396.7	326.4	281.0	190.2	122.0
115°	659.7	698.1	659.7	621.2	611.6	510.0	374.4	306.6	268.4	191.9	134.5
117.5°	621.6	664.2	621.6	578.9	568.3	476.5	354.2	293.0	260.5	195.5	146.7
120°	590.8	632.3	590.8	549.3	539.0	455.2	343.4	287.6	257.9	198.4	153.8
122.5°	560.9	601.8	560.9	520.1	509.9	434.4	333.7	283.4	256.4	202.6	162.1
125°	518.3	555.9	518.3	480.6	471.2	407.1	321.6	278.9	255.3	208.2	172.8
127.5°	479.9	511.7	479.9	448.2	440.3	385.2	311.8	275.1	254.6	213.8	183.1
130°	457.3	486.6	457.3	428.0	420.6	371.7	306.3	273.6	255.1	217.9	190.0
132.5°	436.8	463.1	436.8	410.6	404.0	360.1	301.6	272.4	255.3	221.2	195.6
135°	408.7	431.3	408.7	386.1	380.4	343.7	294.7	270.2	255.1	224.8	202.2
137.5°	386.1	404.7	386.1	367.6	363.0	331.9	290.6	269.8	256.6	230.3	210.5
140°	370.7	388.0	370.7	353.4	349.0	322.2	286.5	268.6	256.9	233.6	216.2
142.5°	357.9	372.7	357.9	343.0	339.3	315.7	284.3	268.6	257.9	236.4	220.3
145°	338.7	349.9	338.7	327.4	324.6	305.3	279.6	266.8	257.9	240.0	226.7
147.5°	323.9	333.3	323.9	314.5	312.2	297.1	276.9	266.8	259.6	245.3	234.6
150°	314.6	322.2	314.6	307.0	305.1	292.4	275.3	266.8	260.5	248.1	238.8
152.5°	306.7	312.4	306.7	301.0	299.5	288.6	274.0	266.8	261.1	249.9	241.5
155°	297.5	301.3	297.5	293.7	292.8	284.1	272.5	266.8	262.5	253.9	247.5
157.5°	290.4	293.0	290.4	287.7	287.0	280.2	271.3	266.8	263.8	257.9	253.4
160°	286.0	287.6	286.0	284.5	284.1	278.3	270.6	266.8	264.4	259.7	256.2
162.5°	283.2	284.7	283.2	281.8	281.4	276.5	270.0	266.8	265.0	261.6	259.1
165°	279.2	280.7	279.2	277.6	277.3	273.7	269.1	266.8	266.0	264.5	263.3
167.5°	276.3	276.9	276.3	275.6	275.4	273.2	270.1	268.6	267.9	266.7	265.7
170°	275.4	275.4	275.4	275.4	275.4	273.2	270.1	268.6	268.6	268.5	268.4
172.5°	273.3	272.7	273.3	273.8	274.0	272.2	269.7	268.6	268.6	268.6	268.6
175°	272.0	272.0	272.0	272.0	272.0	270.8	269.3	268.6	268.9	269.6	270.2
177.5°	270.8	270.2	270.8	271.5	271.6	270.7	269.6	268.9	269.2	269.7	270.2
180°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2



TEST NUMBER: P933967

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4
2.5°	1940.6	1929.7	1929.7	1911.6	1904.4	1898.9	1889.9	1862.7	1855.5	1848.2	1859.1
5°	1956.9	1937.0	1922.5	1889.9	1862.7	1851.9	1817.5	1752.3	1708.9	1676.3	1658.2
7.5°	1960.5	1935.1	1908.0	1857.3	1792.1	1763.2	1658.2	1538.7	1506.1	1477.1	1459.0
10°	1956.9	1927.9	1889.9	1813.9	1660.0	1609.3	1504.3	1426.4	1406.5	1401.1	1406.5
12.5°	1944.2	1917.0	1864.5	1737.8	1522.4	1488.0	1426.4	1381.2	1377.6	1386.6	1435.5
15°	1922.5	1897.1	1835.6	1636.4	1446.4	1421.0	1377.6	1361.3	1381.2	1444.5	1591.2
17.5°	1900.7	1871.8	1795.7	1536.9	1388.4	1370.3	1339.5	1372.1	1484.4	1569.5	1618.3
20°	1871.8	1837.4	1750.5	1464.5	1346.8	1330.5	1316.0	1462.6	1547.7	1578.5	1605.7
22.5°	1837.4	1801.2	1688.9	1413.8	1303.3	1290.7	1299.7	1513.3	1547.7	1569.5	1593.0
25°	1792.1	1761.4	1616.5	1373.9	1268.9	1254.5	1288.9	1507.9	1527.8	1533.3	1580.3
27.5°	1750.5	1710.7	1540.5	1337.7	1227.3	1221.9	1297.9	1484.4	1498.9	1504.3	1555.0
30°	1699.8	1640.1	1455.4	1299.7	1183.9	1182.0	1299.7	1455.4	1451.8	1466.3	1517.0
32.5°	1647.3	1535.1	1359.5	1252.7	1142.2	1140.4	1287.0	1412.0	1408.3	1428.3	1466.3
35°	1598.4	1453.6	1229.1	1198.3	1089.7	1091.5	1256.3	1361.3	1363.1	1381.2	1404.7
37.5°	1547.7	1383.0	1086.1	1138.6	1039.1	1039.1	1214.6	1314.2	1310.6	1316.0	1348.6
40°	1488.0	1272.6	959.5	1060.8	992.1	986.6	1163.9	1263.5	1250.8	1249.0	1294.3
42.5°	1424.6	1151.3	865.3	957.7	937.7	930.5	1102.4	1202.0	1178.4	1183.9	1241.8
45°	1355.8	1118.7	792.9	809.2	881.6	876.2	1035.5	1131.4	1115.1	1129.6	1189.3
47.5°	1287.0	1053.6	769.4	671.6	821.9	820.1	961.3	1062.7	1053.6	1068.1	1131.4
50°	1192.9	981.2	767.6	575.7	754.9	762.1	872.6	995.7	995.7	1008.3	1075.3
52.5°	1071.7	892.5	697.0	521.4	677.1	698.8	794.7	937.7	941.4	954.0	1013.8
55°	961.3	800.2	646.3	479.7	584.7	631.8	718.7	878.0	885.2	897.9	952.2
57.5°	859.9	666.2	635.4	430.9	499.6	544.9	651.7	820.1	823.7	834.6	887.1
60°	751.3	481.5	582.9	378.4	425.4	459.8	590.2	751.3	764.0	771.2	816.5
62.5°	628.2	349.4	528.6	342.2	389.2	396.5	539.5	686.1	702.4	707.8	735.0
65°	447.1	293.3	449.0	311.4	351.2	353.0	485.2	619.1	633.6	642.7	662.6
67.5°	302.3	239.0	342.2	282.4	322.2	324.0	432.7	541.3	561.2	568.4	581.1
70°	210.0	159.3	253.4	251.6	289.7	293.3	376.5	470.7	488.8	494.2	501.5
72.5°	153.9	128.5	210.0	226.3	255.3	258.9	318.6	391.0	409.1	414.6	418.2
75°	117.7	135.8	170.2	197.3	217.2	219.0	260.7	318.6	331.3	334.9	336.7
77.5°	94.1	126.7	124.9	159.3	177.4	173.8	204.6	246.2	257.1	257.1	257.1
80°	70.6	99.6	94.1	114.1	130.3	126.7	146.6	175.6	179.2	182.8	181.0
82.5°	52.5	63.4	63.4	72.4	86.9	83.3	97.8	114.1	114.1	114.1	117.7
85°	32.6	36.2	29.0	38.0	48.9	47.1	54.3	61.6	63.4	63.4	59.7
87.5°	19.9	16.3	9.1	14.5	21.7	21.7	25.3	27.2	25.3	25.3	25.3
90°	4.7	3.3	1.8	3.3	4.7	5.1	8.0	11.9	13.8	12.2	9.1
92.5°	32.0	19.6	7.2	19.6	32.0	35.0	49.2	68.2	77.6	68.0	48.9
95°	62.5	39.9	17.4	39.9	62.5	68.2	121.0	191.5	226.8	202.4	153.6
97.5°	69.9	50.1	30.1	50.1	69.9	74.9	163.0	280.6	339.4	324.0	293.2
100°	75.9	57.9	39.9	57.9	75.9	80.5	178.3	308.8	374.0	375.2	377.5
102.5°	81.9	65.1	48.2	65.1	81.9	86.1	185.4	317.7	383.9	403.5	442.8
105°	91.0	76.7	62.4	76.7	91.0	94.5	190.6	318.7	382.8	426.9	515.0
107.5°	103.5	90.2	76.8	90.2	103.5	106.8	191.5	304.5	361.0	422.4	545.5
110°	110.7	98.7	86.7	98.7	110.7	113.7	190.1	291.9	342.9	411.6	549.1



TEST NUMBER: P933967

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	119.1	107.7	96.3	107.7	119.1	122.0	190.2	281.0	326.4	396.7	537.4
115°	131.9	121.3	110.8	121.3	131.9	134.5	191.9	268.4	306.6	374.4	510.0
117.5°	144.3	134.7	125.1	134.7	144.3	146.7	195.5	260.5	293.0	354.2	476.5
120°	151.5	142.5	133.4	142.5	151.5	153.8	198.4	257.9	287.6	343.4	455.2
122.5°	159.9	150.7	141.6	150.7	159.9	162.1	202.6	256.4	283.4	333.7	434.4
125°	170.7	162.5	154.1	162.5	170.7	172.8	208.2	255.3	278.9	321.6	407.1
127.5°	181.0	172.6	164.3	172.6	181.0	183.1	213.8	254.6	275.1	311.8	385.2
130°	187.7	178.8	169.7	178.8	187.7	190.0	217.9	255.1	273.6	306.3	371.7
132.5°	193.3	184.4	175.3	184.4	193.3	195.6	221.2	255.3	272.4	301.6	360.1
135°	200.1	191.9	183.7	191.9	200.1	202.2	224.8	255.1	270.2	294.7	343.7
137.5°	208.5	200.3	192.2	200.3	208.5	210.5	230.3	256.6	269.8	290.6	331.9
140°	214.3	206.7	199.2	206.7	214.3	216.2	233.6	256.9	268.6	286.5	322.2
142.5°	218.6	211.6	204.7	211.6	218.6	220.3	236.4	257.9	268.6	284.3	315.7
145°	225.1	219.1	213.1	219.1	225.1	226.7	240.0	257.9	266.8	279.6	305.3
147.5°	233.2	227.3	221.4	227.3	233.2	234.6	245.3	259.6	266.8	276.9	297.1
150°	237.4	232.2	226.8	232.2	237.4	238.8	248.1	260.5	266.8	275.3	292.4
152.5°	240.5	236.4	232.4	236.4	240.5	241.5	249.9	261.1	266.8	274.0	288.6
155°	246.7	243.8	240.8	243.8	246.7	247.5	253.9	262.5	266.8	272.5	284.1
157.5°	252.7	249.8	246.9	249.8	252.7	253.4	257.9	263.8	266.8	271.3	280.2
160°	255.6	253.4	251.1	253.4	255.6	256.2	259.7	264.4	266.8	270.6	278.3
162.5°	258.6	257.0	255.3	257.0	258.6	259.1	261.6	265.0	266.8	270.0	276.5
165°	262.9	261.4	259.9	261.4	262.9	263.3	264.5	266.0	266.8	269.1	273.7
167.5°	265.5	264.8	264.0	264.8	265.5	265.7	266.7	267.9	268.6	270.1	273.2
170°	268.2	267.5	266.8	267.5	268.2	268.4	268.5	268.6	268.6	270.1	273.2
172.5°	268.6	268.4	268.2	268.4	268.6	268.6	268.6	268.6	268.6	269.7	272.2
175°	270.2	270.2	270.2	270.2	270.2	270.2	269.6	268.9	268.6	269.3	270.8
177.5°	270.2	270.2	270.2	270.2	270.2	270.2	269.7	269.2	268.9	269.6	270.7
180°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2



TEST NUMBER: P933967

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4	1913.4
2.5°	1846.4	1841.0	1848.2	1828.3	1848.2	1841.0	1846.4	1859.1	1848.2	1855.5	1862.7
5°	1620.1	1611.1	1582.1	1558.6	1582.1	1611.1	1620.1	1658.2	1676.3	1708.9	1752.3
7.5°	1448.2	1440.9	1433.7	1419.2	1433.7	1440.9	1448.2	1459.0	1477.1	1506.1	1538.7
10°	1410.2	1412.0	1422.8	1421.0	1422.8	1412.0	1410.2	1406.5	1401.1	1406.5	1426.4
12.5°	1507.9	1524.2	1583.9	1580.3	1583.9	1524.2	1507.9	1435.5	1386.6	1377.6	1381.2
15°	1620.1	1625.6	1638.3	1640.1	1638.3	1625.6	1620.1	1591.2	1444.5	1381.2	1361.3
17.5°	1631.0	1632.8	1641.9	1641.9	1641.9	1632.8	1631.0	1618.3	1569.5	1484.4	1372.1
20°	1622.0	1625.6	1643.7	1647.3	1643.7	1625.6	1622.0	1605.7	1578.5	1547.7	1462.6
22.5°	1618.3	1625.6	1640.1	1638.3	1640.1	1625.6	1618.3	1593.0	1569.5	1547.7	1513.3
25°	1600.2	1600.2	1602.0	1603.9	1602.0	1600.2	1600.2	1580.3	1533.3	1527.8	1507.9
27.5°	1562.2	1565.8	1576.7	1574.9	1576.7	1565.8	1562.2	1555.0	1504.3	1498.9	1484.4
30°	1527.8	1524.2	1515.1	1507.9	1515.1	1524.2	1527.8	1517.0	1466.3	1451.8	1455.4
32.5°	1469.9	1460.8	1451.8	1446.4	1451.8	1460.8	1469.9	1466.3	1428.3	1408.3	1412.0
35°	1401.1	1402.9	1401.1	1395.7	1401.1	1402.9	1401.1	1404.7	1381.2	1363.1	1361.3
37.5°	1352.2	1355.8	1354.0	1346.8	1354.0	1355.8	1352.2	1348.6	1316.0	1310.6	1314.2
40°	1301.5	1303.3	1301.5	1296.1	1301.5	1303.3	1301.5	1294.3	1249.0	1250.8	1263.5
42.5°	1252.7	1250.8	1245.4	1241.8	1245.4	1250.8	1252.7	1241.8	1183.9	1178.4	1202.0
45°	1196.5	1198.3	1187.5	1182.0	1187.5	1198.3	1196.5	1189.3	1129.6	1115.1	1131.4
47.5°	1140.4	1140.4	1131.4	1125.9	1131.4	1140.4	1140.4	1131.4	1068.1	1053.6	1062.7
50°	1080.7	1079.0	1066.3	1064.5	1066.3	1079.0	1080.7	1075.3	1008.3	995.7	995.7
52.5°	1012.0	1012.0	1013.8	1017.4	1013.8	1012.0	1012.0	1013.8	954.0	941.4	937.7
55°	952.2	954.0	966.7	970.3	966.7	954.0	952.2	952.2	897.9	885.2	878.0
57.5°	890.7	890.7	899.7	899.7	899.7	890.7	890.7	887.1	834.6	823.7	820.1
60°	820.1	823.7	830.9	829.1	830.9	823.7	820.1	816.5	771.2	764.0	751.3
62.5°	745.9	749.5	751.3	747.7	751.3	749.5	745.9	735.0	707.8	702.4	686.1
65°	668.0	671.6	673.4	669.8	673.4	671.6	668.0	662.6	642.7	633.6	619.1
67.5°	588.4	586.5	584.7	592.0	584.7	586.5	588.4	581.1	568.4	561.2	541.3
70°	506.9	506.9	505.1	508.7	505.1	506.9	506.9	501.5	494.2	488.8	470.7
72.5°	420.0	418.2	425.4	420.0	425.4	418.2	420.0	418.2	414.6	409.1	391.0
75°	334.9	338.5	334.9	340.3	334.9	338.5	334.9	336.7	334.9	331.3	318.6
77.5°	255.3	258.9	255.3	255.3	255.3	258.9	255.3	257.1	257.1	257.1	246.2
80°	181.0	179.2	179.2	177.4	179.2	179.2	181.0	181.0	182.8	179.2	175.6
82.5°	115.9	114.1	114.1	117.7	114.1	114.1	115.9	117.7	114.1	114.1	114.1
85°	63.4	65.2	61.6	61.6	61.6	65.2	63.4	59.7	63.4	63.4	61.6
87.5°	23.5	21.7	21.7	21.7	21.7	21.7	23.5	25.3	25.3	25.3	27.2
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9
92.5°	34.5	33.1	27.6	22.1	27.6	33.1	34.5	48.9	68.0	77.6	68.2
95°	116.9	112.8	96.2	79.6	96.2	112.8	116.9	153.6	202.4	226.8	191.5
97.5°	270.0	262.1	230.5	198.9	230.5	262.1	270.0	293.2	324.0	339.4	280.6
100°	379.2	369.8	332.1	294.4	332.1	369.8	379.2	377.5	375.2	374.0	308.8
102.5°	472.3	464.3	432.0	399.8	432.0	464.3	472.3	442.8	403.5	383.9	317.7
105°	581.1	576.8	559.5	542.1	559.5	576.8	581.1	515.0	426.9	382.8	318.7
107.5°	637.7	638.8	642.9	647.1	642.9	638.8	637.7	545.5	422.4	361.0	304.5
110°	652.2	656.7	674.7	692.8	674.7	656.7	652.2	549.1	411.6	342.9	291.9



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CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	642.9	649.9	677.6	705.3	677.6	649.9	642.9	537.4	396.7	326.4	281.0
115°	611.6	621.2	659.7	698.1	659.7	621.2	611.6	510.0	374.4	306.6	268.4
117.5°	568.3	578.9	621.6	664.2	621.6	578.9	568.3	476.5	354.2	293.0	260.5
120°	539.0	549.3	590.8	632.3	590.8	549.3	539.0	455.2	343.4	287.6	257.9
122.5°	509.9	520.1	560.9	601.8	560.9	520.1	509.9	434.4	333.7	283.4	256.4
125°	471.2	480.6	518.3	555.9	518.3	480.6	471.2	407.1	321.6	278.9	255.3
127.5°	440.3	448.2	479.9	511.7	479.9	448.2	440.3	385.2	311.8	275.1	254.6
130°	420.6	428.0	457.3	486.6	457.3	428.0	420.6	371.7	306.3	273.6	255.1
132.5°	404.0	410.6	436.8	463.1	436.8	410.6	404.0	360.1	301.6	272.4	255.3
135°	380.4	386.1	408.7	431.3	408.7	386.1	380.4	343.7	294.7	270.2	255.1
137.5°	363.0	367.6	386.1	404.7	386.1	367.6	363.0	331.9	290.6	269.8	256.6
140°	349.0	353.4	370.7	388.0	370.7	353.4	349.0	322.2	286.5	268.6	256.9
142.5°	339.3	343.0	357.9	372.7	357.9	343.0	339.3	315.7	284.3	268.6	257.9
145°	324.6	327.4	338.7	349.9	338.7	327.4	324.6	305.3	279.6	266.8	257.9
147.5°	312.2	314.5	323.9	333.3	323.9	314.5	312.2	297.1	276.9	266.8	259.6
150°	305.1	307.0	314.6	322.2	314.6	307.0	305.1	292.4	275.3	266.8	260.5
152.5°	299.5	301.0	306.7	312.4	306.7	301.0	299.5	288.6	274.0	266.8	261.1
155°	292.8	293.7	297.5	301.3	297.5	293.7	292.8	284.1	272.5	266.8	262.5
157.5°	287.0	287.7	290.4	293.0	290.4	287.7	287.0	280.2	271.3	266.8	263.8
160°	284.1	284.5	286.0	287.6	286.0	284.5	284.1	278.3	270.6	266.8	264.4
162.5°	281.4	281.8	283.2	284.7	283.2	281.8	281.4	276.5	270.0	266.8	265.0
165°	277.3	277.6	279.2	280.7	279.2	277.6	277.3	273.7	269.1	266.8	266.0
167.5°	275.4	275.6	276.3	276.9	276.3	275.6	275.4	273.2	270.1	268.6	267.9
170°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	273.2	270.1	268.6	268.6
172.5°	274.0	273.8	273.3	272.7	273.3	273.8	274.0	272.2	269.7	268.6	268.6
175°	272.0	272.0	272.0	272.0	272.0	272.0	272.0	270.8	269.3	268.6	268.9
177.5°	271.6	271.5	270.8	270.2	270.8	271.5	271.6	270.7	269.6	268.9	269.2
180°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2



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CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1913.4	1913.4	1913.4	1913.4	1913.4
2.5°	1889.9	1898.9	1904.4	1911.6	1929.7
5°	1817.5	1851.9	1862.7	1889.9	1922.5
7.5°	1658.2	1763.2	1792.1	1857.3	1908.0
10°	1504.3	1609.3	1660.0	1813.9	1889.9
12.5°	1426.4	1488.0	1522.4	1737.8	1864.5
15°	1377.6	1421.0	1446.4	1636.4	1835.6
17.5°	1339.5	1370.3	1388.4	1536.9	1795.7
20°	1316.0	1330.5	1346.8	1464.5	1750.5
22.5°	1299.7	1290.7	1303.3	1413.8	1688.9
25°	1288.9	1254.5	1268.9	1373.9	1616.5
27.5°	1297.9	1221.9	1227.3	1337.7	1540.5
30°	1299.7	1182.0	1183.9	1299.7	1455.4
32.5°	1287.0	1140.4	1142.2	1252.7	1359.5
35°	1256.3	1091.5	1089.7	1198.3	1229.1
37.5°	1214.6	1039.1	1039.1	1138.6	1086.1
40°	1163.9	986.6	992.1	1060.8	959.5
42.5°	1102.4	930.5	937.7	957.7	865.3
45°	1035.5	876.2	881.6	809.2	792.9
47.5°	961.3	820.1	821.9	671.6	769.4
50°	872.6	762.1	754.9	575.7	767.6
52.5°	794.7	698.8	677.1	521.4	697.0
55°	718.7	631.8	584.7	479.7	646.3
57.5°	651.7	544.9	499.6	430.9	635.4
60°	590.2	459.8	425.4	378.4	582.9
62.5°	539.5	396.5	389.2	342.2	528.6
65°	485.2	353.0	351.2	311.4	449.0
67.5°	432.7	324.0	322.2	282.4	342.2
70°	376.5	293.3	289.7	251.6	253.4
72.5°	318.6	258.9	255.3	226.3	210.0
75°	260.7	219.0	217.2	197.3	170.2
77.5°	204.6	173.8	177.4	159.3	124.9
80°	146.6	126.7	130.3	114.1	94.1
82.5°	97.8	83.3	86.9	72.4	63.4
85°	54.3	47.1	48.9	38.0	29.0
87.5°	25.3	21.7	21.7	14.5	9.1
90°	8.0	5.1	4.7	3.3	1.8
92.5°	49.2	35.0	32.0	19.6	7.2
95°	121.0	68.2	62.5	39.9	17.4
97.5°	163.0	74.9	69.9	50.1	30.1
100°	178.3	80.5	75.9	57.9	39.9
102.5°	185.4	86.1	81.9	65.1	48.2
105°	190.6	94.5	91.0	76.7	62.4
107.5°	191.5	106.8	103.5	90.2	76.8
110°	190.1	113.7	110.7	98.7	86.7



TEST NUMBER: P933967

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	190.2	122.0	119.1	107.7	96.3
115°	191.9	134.5	131.9	121.3	110.8
117.5°	195.5	146.7	144.3	134.7	125.1
120°	198.4	153.8	151.5	142.5	133.4
122.5°	202.6	162.1	159.9	150.7	141.6
125°	208.2	172.8	170.7	162.5	154.1
127.5°	213.8	183.1	181.0	172.6	164.3
130°	217.9	190.0	187.7	178.8	169.7
132.5°	221.2	195.6	193.3	184.4	175.3
135°	224.8	202.2	200.1	191.9	183.7
137.5°	230.3	210.5	208.5	200.3	192.2
140°	233.6	216.2	214.3	206.7	199.2
142.5°	236.4	220.3	218.6	211.6	204.7
145°	240.0	226.7	225.1	219.1	213.1
147.5°	245.3	234.6	233.2	227.3	221.4
150°	248.1	238.8	237.4	232.2	226.8
152.5°	249.9	241.5	240.5	236.4	232.4
155°	253.9	247.5	246.7	243.8	240.8
157.5°	257.9	253.4	252.7	249.8	246.9
160°	259.7	256.2	255.6	253.4	251.1
162.5°	261.6	259.1	258.6	257.0	255.3
165°	264.5	263.3	262.9	261.4	259.9
167.5°	266.7	265.7	265.5	264.8	264.0
170°	268.5	268.4	268.2	267.5	266.8
172.5°	268.6	268.6	268.6	268.4	268.2
175°	269.6	270.2	270.2	270.2	270.2
177.5°	269.7	270.2	270.2	270.2	270.2
180°	270.2	270.2	270.2	270.2	270.2



TEST NUMBER: P933967

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.36	15.49	15.08	16.23	17.11	17.20	18.32	17.92	19.06	19.95
	3H	14.86	15.87	15.59	16.62	17.53	18.56	19.58	19.30	20.33	21.24
	4H	15.06	16.01	15.81	16.77	17.70	19.02	19.98	19.78	20.74	21.66
	6H	15.19	16.07	15.96	16.84	17.78	19.32	20.20	20.09	20.97	21.91
	8H	15.20	16.04	15.98	16.83	17.77	19.41	20.25	20.18	21.03	21.98
	12H	15.18	15.98	15.96	16.76	17.73	19.45	20.26	20.24	21.04	22.01
4H	2H	15.43	16.38	16.18	17.14	18.07	17.64	18.59	18.39	19.35	20.28
	3H	16.48	17.27	17.25	18.07	19.01	19.17	19.97	19.94	20.76	21.71
	4H	16.76	17.49	17.55	18.28	19.26	19.71	20.43	20.49	21.23	22.20
	6H	16.90	17.53	17.71	18.35	19.33	20.09	20.72	20.89	21.54	22.52
	8H	16.92	17.50	17.72	18.32	19.31	20.21	20.79	21.01	21.61	22.60
	12H	16.90	17.42	17.72	18.26	19.26	20.28	20.80	21.10	21.64	22.64
8H	4H	17.24	17.82	18.05	18.64	19.63	19.86	20.44	20.66	21.26	22.25
	6H	17.51	18.00	18.35	18.86	19.85	20.31	20.79	21.14	21.65	22.64
	8H	17.56	17.99	18.40	18.84	19.85	20.46	20.89	21.31	21.75	22.76
	12H	17.55	17.93	18.40	18.78	19.85	20.57	20.95	21.42	21.80	22.86
12H	4H	17.26	17.78	18.08	18.62	19.62	19.83	20.36	20.66	21.20	22.20
	6H	17.58	18.01	18.42	18.86	19.87	20.30	20.74	21.15	21.59	22.60
	8H	17.65	18.03	18.50	18.88	19.95	20.48	20.86	21.33	21.71	22.77