

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: P934367

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934367
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-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: -

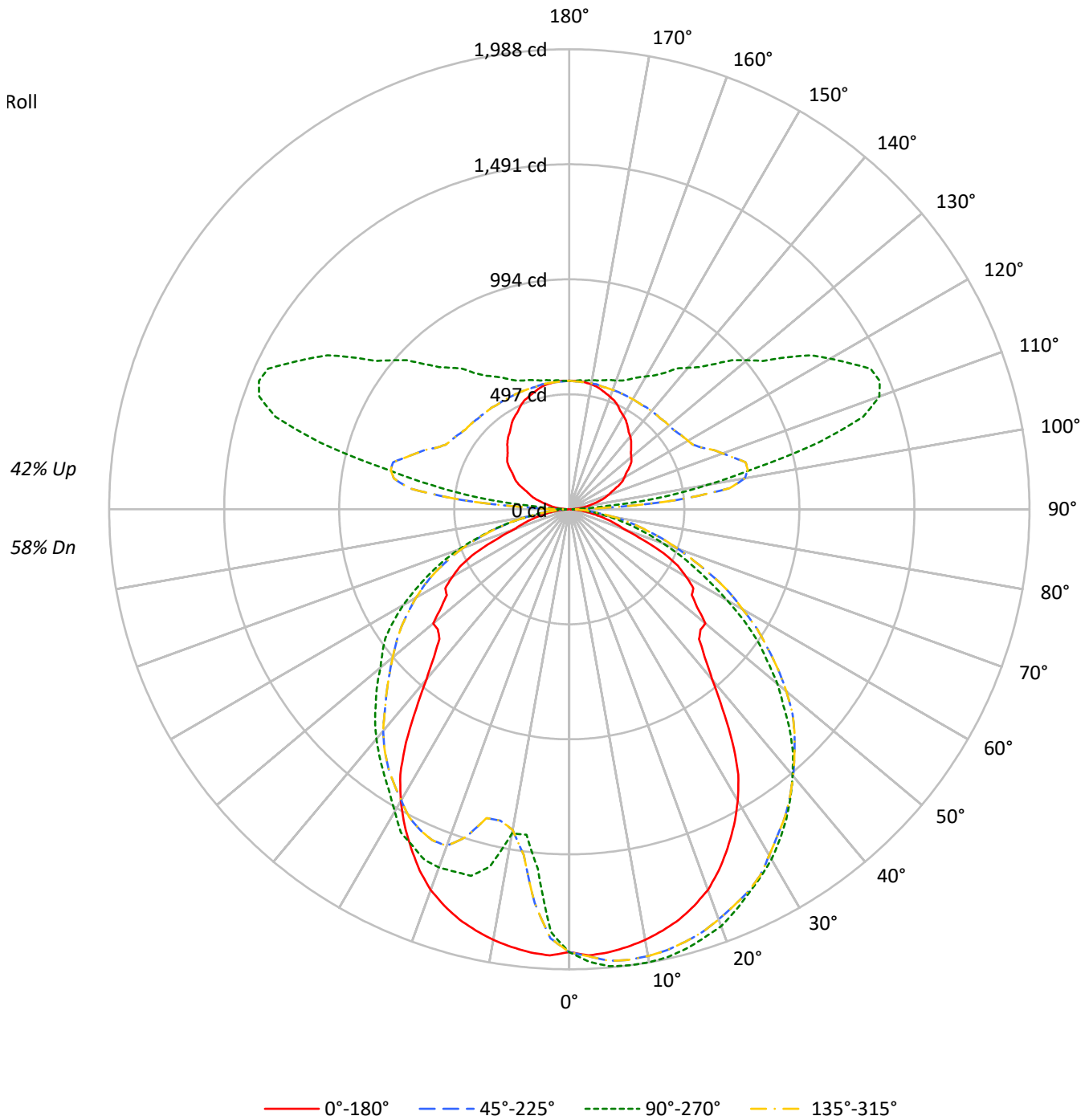
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8567.4 lumens
Efficiency: N/A
Efficacy: 117.7 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: General Diffuse

Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

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	2.0
10°-20°	490.4	5.7
20°-30°	758.1	8.8
30°-40°	905.0	10.6
40°-50°	910.3	10.6
50°-60°	792.1	9.2
60°-70°	561.6	6.6
70°-80°	297.1	3.5
80°-90°	76.1	0.9
90°-100°	271.0	3.2
100°-110°	712.5	8.3
110°-120°	738.8	8.6
120°-130°	592.6	6.9
130°-140°	465.0	5.4
140°-150°	356.9	4.2
150°-160°	257.0	3.0
160°-170°	157.3	1.8
170°-180°	53.1	0.6
0°-30°	1421.2	16.6
0°-40°	2326.1	27.2
0°-60°	4028.5	47.0
0°-90°	4963.3	57.9
90°-120°	1722.2	20.1
90°-150°	3136.7	36.6
90°-180°	3604.0	42.1
0°-180°	8567.4	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°	4	14	4	14	4	4
95°	36	164	36	164	36	40
105°	128	1116	128	1116	128	136
115°	228	1436	228	1436	228	225
125°	317	1144	317	1144	317	282
135°	378	888	378	888	378	292
145°	438	720	438	720	438	275
155°	496	620	496	620	496	228
165°	535	578	535	578	535	151
175°	556	560	556	560	556	53
180°	556	556	556	556	556	



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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°	3.7	6.7	9.7	10.4	16.4	24.3	28.3	25.2	18.9	14.2	14.2
92.5°	14.9	40.3	65.7	72.1	101.3	140.2	159.7	139.9	100.5	70.9	68.1
95°	35.8	82.3	128.7	140.3	249.1	394.2	466.8	416.6	316.1	240.7	232.2
97.5°	61.9	102.8	143.8	154.1	335.5	577.5	698.5	666.7	603.2	555.6	539.3
100°	82.1	119.2	156.3	165.6	367.0	635.5	769.7	772.1	776.7	780.2	760.8
102.5°	99.3	134.0	168.5	177.2	381.4	653.8	789.9	830.4	911.3	972.0	955.4
105°	128.4	157.7	187.1	194.4	392.2	655.9	787.7	878.4	1059.9	1195.9	1186.9
107.5°	158.2	185.6	212.9	219.8	394.1	626.6	742.9	869.4	1122.5	1312.3	1314.5
110°	178.3	203.0	227.8	234.0	391.2	600.8	705.6	847.0	1129.9	1342.1	1351.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	198.1	221.7	245.2	251.1	391.3	578.2	671.6	816.4	1105.9	1323.1	1337.4
115°	228.0	249.7	271.5	276.9	394.9	552.3	631.0	770.5	1049.4	1258.5	1278.3
117.5°	257.4	277.2	296.9	301.9	402.3	536.0	602.9	728.8	980.6	1169.4	1191.3
120°	274.6	293.2	311.8	316.4	408.2	530.6	591.8	706.7	936.8	1109.3	1130.5
122.5°	291.4	310.1	328.8	333.6	416.7	527.7	583.2	686.7	893.9	1049.3	1070.3
125°	317.2	334.2	351.3	355.5	428.3	525.4	573.9	661.9	837.8	969.8	989.2
127.5°	338.1	355.3	372.5	376.8	439.9	524.0	566.0	641.6	792.6	906.0	922.3
130°	349.2	367.8	386.4	391.0	448.3	524.8	563.0	630.3	764.8	865.6	880.7
132.5°	360.8	379.4	398.0	402.6	455.2	525.4	560.5	620.7	741.1	831.3	844.8
135°	378.0	394.9	411.8	416.0	462.6	524.8	555.9	606.4	707.2	782.8	794.5
137.5°	395.6	412.3	429.0	433.2	473.9	528.1	555.2	597.9	683.1	747.0	756.5
140°	410.0	425.5	440.9	444.8	480.7	528.6	552.6	589.4	663.0	718.2	727.1
142.5°	421.3	435.5	449.8	453.3	486.4	530.5	552.6	584.9	649.6	698.2	705.8
145°	438.5	450.9	463.4	466.4	493.9	530.6	548.9	575.3	628.3	667.9	673.7
147.5°	455.6	467.7	479.8	482.8	504.8	534.2	548.9	569.7	611.3	642.5	647.3
150°	466.8	477.7	488.7	491.4	510.6	536.1	548.9	566.4	601.7	628.0	631.9
152.5°	478.4	486.7	494.9	497.0	514.3	537.4	548.9	563.9	593.9	616.4	619.4
155°	495.5	501.6	507.8	509.3	522.5	540.1	548.9	560.8	584.6	602.6	604.6
157.5°	508.2	514.1	520.1	521.6	530.7	542.8	548.9	558.1	576.7	590.6	592.0
160°	516.8	521.5	526.1	527.3	534.5	544.1	548.9	556.9	572.7	584.6	585.5
162.5°	525.4	528.9	532.3	533.2	538.5	545.5	548.9	555.6	569.1	579.1	579.8
165°	534.7	537.8	540.9	541.7	544.1	547.3	548.9	553.7	563.3	570.5	571.3
167.5°	543.3	544.7	546.3	546.6	548.6	551.2	552.6	555.8	562.1	566.8	567.2
170°	548.9	550.3	551.9	552.2	552.3	552.5	552.6	555.8	562.1	566.8	566.8
172.5°	551.9	552.2	552.5	552.6	552.6	552.6	552.6	555.1	560.1	563.8	563.6
175°	555.9	555.9	555.9	555.9	554.9	553.3	552.6	554.1	557.3	559.7	559.7
177.5°	555.9	555.9	555.9	555.9	555.0	553.9	553.3	554.6	557.0	558.9	558.6
180°	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9



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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°	14.2	14.2	14.2	14.2	14.2	18.9	25.2	28.3	24.3	16.4	10.4
92.5°	56.8	45.5	56.8	68.1	70.9	100.5	139.9	159.7	140.2	101.3	72.1
95°	198.0	163.8	198.0	232.2	240.7	316.1	416.6	466.8	394.2	249.1	140.3
97.5°	474.3	409.3	474.3	539.3	555.6	603.2	666.7	698.5	577.5	335.5	154.1
100°	683.4	605.9	683.4	760.8	780.2	776.7	772.1	769.7	635.5	367.0	165.6
102.5°	889.0	822.7	889.0	955.4	972.0	911.3	830.4	789.9	653.8	381.4	177.2
105°	1151.3	1115.6	1151.3	1186.9	1195.9	1059.9	878.4	787.7	655.9	392.2	194.4
107.5°	1323.1	1331.7	1323.1	1314.5	1312.3	1122.5	869.4	742.9	626.6	394.1	219.8
110°	1388.5	1425.7	1388.5	1351.4	1342.1	1129.9	847.0	705.6	600.8	391.2	234.0



TEST NUMBER: P934367

CATALOG NUMBER: SQ4-FA-050U-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°	1394.4	1451.4	1394.4	1337.4	1323.1	1105.9	816.4	671.6	578.2	391.3	251.1
115°	1357.4	1436.5	1357.4	1278.3	1258.5	1049.4	770.5	631.0	552.3	394.9	276.9
117.5°	1279.1	1366.8	1279.1	1191.3	1169.4	980.6	728.8	602.9	536.0	402.3	301.9
120°	1215.8	1301.1	1215.8	1130.5	1109.3	936.8	706.7	591.8	530.6	408.2	316.4
122.5°	1154.4	1238.4	1154.4	1070.3	1049.3	893.9	686.7	583.2	527.7	416.7	333.6
125°	1066.6	1144.0	1066.6	989.2	969.8	837.8	661.9	573.9	525.4	428.3	355.5
127.5°	987.6	1053.0	987.6	922.3	906.0	792.6	641.6	566.0	524.0	439.9	376.8
130°	941.1	1001.5	941.1	880.7	865.6	764.8	630.3	563.0	524.8	448.3	391.0
132.5°	898.9	953.0	898.9	844.8	831.3	741.1	620.7	560.5	525.4	455.2	402.6
135°	841.1	887.7	841.1	794.5	782.8	707.2	606.4	555.9	524.8	462.6	416.0
137.5°	794.7	832.8	794.7	756.5	747.0	683.1	597.9	555.2	528.1	473.9	433.2
140°	762.8	798.4	762.8	727.1	718.2	663.0	589.4	552.6	528.6	480.7	444.8
142.5°	736.4	767.1	736.4	705.8	698.2	649.6	584.9	552.6	530.5	486.4	453.3
145°	697.0	720.1	697.0	673.7	667.9	628.3	575.3	548.9	530.6	493.9	466.4
147.5°	666.6	685.8	666.6	647.3	642.5	611.3	569.7	548.9	534.2	504.8	482.8
150°	647.5	663.0	647.5	631.9	628.0	601.7	566.4	548.9	536.1	510.6	491.4
152.5°	631.2	642.9	631.2	619.4	616.4	593.9	563.9	548.9	537.4	514.3	497.0
155°	612.3	620.1	612.3	604.6	602.6	584.6	560.8	548.9	540.1	522.5	509.3
157.5°	597.5	602.9	597.5	592.0	590.6	576.7	558.1	548.9	542.8	530.7	521.6
160°	588.6	591.8	588.6	585.5	584.6	572.7	556.9	548.9	544.1	534.5	527.3
162.5°	582.8	585.8	582.8	579.8	579.1	569.1	555.6	548.9	545.5	538.5	533.2
165°	574.4	577.6	574.4	571.3	570.5	563.3	553.7	548.9	547.3	544.1	541.7
167.5°	568.4	569.8	568.4	567.2	566.8	562.1	555.8	552.6	551.2	548.6	546.6
170°	566.8	566.8	566.8	566.8	566.8	562.1	555.8	552.6	552.5	552.3	552.2
172.5°	562.4	561.2	562.4	563.6	563.8	560.1	555.1	552.6	552.6	552.6	552.6
175°	559.7	559.7	559.7	559.7	559.7	557.3	554.1	552.6	553.3	554.9	555.9
177.5°	557.3	555.9	557.3	558.6	558.9	557.0	554.6	553.3	553.9	555.0	555.9
180°	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9



TEST NUMBER: P934367

CATALOG NUMBER: SQ4-FA-050U-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°	9.7	6.7	3.7	6.7	9.7	10.4	16.4	24.3	28.3	25.2	18.9
92.5°	65.7	40.3	14.9	40.3	65.7	72.1	101.3	140.2	159.7	139.9	100.5
95°	128.7	82.3	35.8	82.3	128.7	140.3	249.1	394.2	466.8	416.6	316.1
97.5°	143.8	102.8	61.9	102.8	143.8	154.1	335.5	577.5	698.5	666.7	603.2
100°	156.3	119.2	82.1	119.2	156.3	165.6	367.0	635.5	769.7	772.1	776.7
102.5°	168.5	134.0	99.3	134.0	168.5	177.2	381.4	653.8	789.9	830.4	911.3
105°	187.1	157.7	128.4	157.7	187.1	194.4	392.2	655.9	787.7	878.4	1059.9
107.5°	212.9	185.6	158.2	185.6	212.9	219.8	394.1	626.6	742.9	869.4	1122.5
110°	227.8	203.0	178.3	203.0	227.8	234.0	391.2	600.8	705.6	847.0	1129.9



TEST NUMBER: P934367

CATALOG NUMBER: SQ4-FA-050U-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°	245.2	221.7	198.1	221.7	245.2	251.1	391.3	578.2	671.6	816.4	1105.9
115°	271.5	249.7	228.0	249.7	271.5	276.9	394.9	552.3	631.0	770.5	1049.4
117.5°	296.9	277.2	257.4	277.2	296.9	301.9	402.3	536.0	602.9	728.8	980.6
120°	311.8	293.2	274.6	293.2	311.8	316.4	408.2	530.6	591.8	706.7	936.8
122.5°	328.8	310.1	291.4	310.1	328.8	333.6	416.7	527.7	583.2	686.7	893.9
125°	351.3	334.2	317.2	334.2	351.3	355.5	428.3	525.4	573.9	661.9	837.8
127.5°	372.5	355.3	338.1	355.3	372.5	376.8	439.9	524.0	566.0	641.6	792.6
130°	386.4	367.8	349.2	367.8	386.4	391.0	448.3	524.8	563.0	630.3	764.8
132.5°	398.0	379.4	360.8	379.4	398.0	402.6	455.2	525.4	560.5	620.7	741.1
135°	411.8	394.9	378.0	394.9	411.8	416.0	462.6	524.8	555.9	606.4	707.2
137.5°	429.0	412.3	395.6	412.3	429.0	433.2	473.9	528.1	555.2	597.9	683.1
140°	440.9	425.5	410.0	425.5	440.9	444.8	480.7	528.6	552.6	589.4	663.0
142.5°	449.8	435.5	421.3	435.5	449.8	453.3	486.4	530.5	552.6	584.9	649.6
145°	463.4	450.9	438.5	450.9	463.4	466.4	493.9	530.6	548.9	575.3	628.3
147.5°	479.8	467.7	455.6	467.7	479.8	482.8	504.8	534.2	548.9	569.7	611.3
150°	488.7	477.7	466.8	477.7	488.7	491.4	510.6	536.1	548.9	566.4	601.7
152.5°	494.9	486.7	478.4	486.7	494.9	497.0	514.3	537.4	548.9	563.9	593.9
155°	507.8	501.6	495.5	501.6	507.8	509.3	522.5	540.1	548.9	560.8	584.6
157.5°	520.1	514.1	508.2	514.1	520.1	521.6	530.7	542.8	548.9	558.1	576.7
160°	526.1	521.5	516.8	521.5	526.1	527.3	534.5	544.1	548.9	556.9	572.7
162.5°	532.3	528.9	525.4	528.9	532.3	533.2	538.5	545.5	548.9	555.6	569.1
165°	540.9	537.8	534.7	537.8	540.9	541.7	544.1	547.3	548.9	553.7	563.3
167.5°	546.3	544.7	543.3	544.7	546.3	546.6	548.6	551.2	552.6	555.8	562.1
170°	551.9	550.3	548.9	550.3	551.9	552.2	552.3	552.5	552.6	555.8	562.1
172.5°	552.5	552.2	551.9	552.2	552.5	552.6	552.6	552.6	552.6	555.1	560.1
175°	555.9	555.9	555.9	555.9	555.9	555.9	554.9	553.3	552.6	554.1	557.3
177.5°	555.9	555.9	555.9	555.9	555.9	555.9	555.0	553.9	553.3	554.6	557.0
180°	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9



TEST NUMBER: P934367

CATALOG NUMBER: SQ4-FA-050U-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°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	18.9	25.2	28.3	24.3
92.5°	70.9	68.1	56.8	45.5	56.8	68.1	70.9	100.5	139.9	159.7	140.2
95°	240.7	232.2	198.0	163.8	198.0	232.2	240.7	316.1	416.6	466.8	394.2
97.5°	555.6	539.3	474.3	409.3	474.3	539.3	555.6	603.2	666.7	698.5	577.5
100°	780.2	760.8	683.4	605.9	683.4	760.8	780.2	776.7	772.1	769.7	635.5
102.5°	972.0	955.4	889.0	822.7	889.0	955.4	972.0	911.3	830.4	789.9	653.8
105°	1195.9	1186.9	1151.3	1115.6	1151.3	1186.9	1195.9	1059.9	878.4	787.7	655.9
107.5°	1312.3	1314.5	1323.1	1331.7	1323.1	1314.5	1312.3	1122.5	869.4	742.9	626.6
110°	1342.1	1351.4	1388.5	1425.7	1388.5	1351.4	1342.1	1129.9	847.0	705.6	600.8



TEST NUMBER: P934367

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1323.1	1337.4	1394.4	1451.4	1394.4	1337.4	1323.1	1105.9	816.4	671.6	578.2
115°	1258.5	1278.3	1357.4	1436.5	1357.4	1278.3	1258.5	1049.4	770.5	631.0	552.3
117.5°	1169.4	1191.3	1279.1	1366.8	1279.1	1191.3	1169.4	980.6	728.8	602.9	536.0
120°	1109.3	1130.5	1215.8	1301.1	1215.8	1130.5	1109.3	936.8	706.7	591.8	530.6
122.5°	1049.3	1070.3	1154.4	1238.4	1154.4	1070.3	1049.3	893.9	686.7	583.2	527.7
125°	969.8	989.2	1066.6	1144.0	1066.6	989.2	969.8	837.8	661.9	573.9	525.4
127.5°	906.0	922.3	987.6	1053.0	987.6	922.3	906.0	792.6	641.6	566.0	524.0
130°	865.6	880.7	941.1	1001.5	941.1	880.7	865.6	764.8	630.3	563.0	524.8
132.5°	831.3	844.8	898.9	953.0	898.9	844.8	831.3	741.1	620.7	560.5	525.4
135°	782.8	794.5	841.1	887.7	841.1	794.5	782.8	707.2	606.4	555.9	524.8
137.5°	747.0	756.5	794.7	832.8	794.7	756.5	747.0	683.1	597.9	555.2	528.1
140°	718.2	727.1	762.8	798.4	762.8	727.1	718.2	663.0	589.4	552.6	528.6
142.5°	698.2	705.8	736.4	767.1	736.4	705.8	698.2	649.6	584.9	552.6	530.5
145°	667.9	673.7	697.0	720.1	697.0	673.7	667.9	628.3	575.3	548.9	530.6
147.5°	642.5	647.3	666.6	685.8	666.6	647.3	642.5	611.3	569.7	548.9	534.2
150°	628.0	631.9	647.5	663.0	647.5	631.9	628.0	601.7	566.4	548.9	536.1
152.5°	616.4	619.4	631.2	642.9	631.2	619.4	616.4	593.9	563.9	548.9	537.4
155°	602.6	604.6	612.3	620.1	612.3	604.6	602.6	584.6	560.8	548.9	540.1
157.5°	590.6	592.0	597.5	602.9	597.5	592.0	590.6	576.7	558.1	548.9	542.8
160°	584.6	585.5	588.6	591.8	588.6	585.5	584.6	572.7	556.9	548.9	544.1
162.5°	579.1	579.8	582.8	585.8	582.8	579.8	579.1	569.1	555.6	548.9	545.5
165°	570.5	571.3	574.4	577.6	574.4	571.3	570.5	563.3	553.7	548.9	547.3
167.5°	566.8	567.2	568.4	569.8	568.4	567.2	566.8	562.1	555.8	552.6	551.2
170°	566.8	566.8	566.8	566.8	566.8	566.8	566.8	562.1	555.8	552.6	552.5
172.5°	563.8	563.6	562.4	561.2	562.4	563.6	563.8	560.1	555.1	552.6	552.6
175°	559.7	559.7	559.7	559.7	559.7	559.7	559.7	557.3	554.1	552.6	553.3
177.5°	558.9	558.6	557.3	555.9	557.3	558.6	558.9	557.0	554.6	553.3	553.9
180°	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9



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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°	16.4	10.4	9.7	6.7	3.7
92.5°	101.3	72.1	65.7	40.3	14.9
95°	249.1	140.3	128.7	82.3	35.8
97.5°	335.5	154.1	143.8	102.8	61.9
100°	367.0	165.6	156.3	119.2	82.1
102.5°	381.4	177.2	168.5	134.0	99.3
105°	392.2	194.4	187.1	157.7	128.4
107.5°	394.1	219.8	212.9	185.6	158.2
110°	391.2	234.0	227.8	203.0	178.3



TEST NUMBER: P934367

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	391.3	251.1	245.2	221.7	198.1
115°	394.9	276.9	271.5	249.7	228.0
117.5°	402.3	301.9	296.9	277.2	257.4
120°	408.2	316.4	311.8	293.2	274.6
122.5°	416.7	333.6	328.8	310.1	291.4
125°	428.3	355.5	351.3	334.2	317.2
127.5°	439.9	376.8	372.5	355.3	338.1
130°	448.3	391.0	386.4	367.8	349.2
132.5°	455.2	402.6	398.0	379.4	360.8
135°	462.6	416.0	411.8	394.9	378.0
137.5°	473.9	433.2	429.0	412.3	395.6
140°	480.7	444.8	440.9	425.5	410.0
142.5°	486.4	453.3	449.8	435.5	421.3
145°	493.9	466.4	463.4	450.9	438.5
147.5°	504.8	482.8	479.8	467.7	455.6
150°	510.6	491.4	488.7	477.7	466.8
152.5°	514.3	497.0	494.9	486.7	478.4
155°	522.5	509.3	507.8	501.6	495.5
157.5°	530.7	521.6	520.1	514.1	508.2
160°	534.5	527.3	526.1	521.5	516.8
162.5°	538.5	533.2	532.3	528.9	525.4
165°	544.1	541.7	540.9	537.8	534.7
167.5°	548.6	546.6	546.3	544.7	543.3
170°	552.3	552.2	551.9	550.3	548.9
172.5°	552.6	552.6	552.5	552.2	551.9
175°	554.9	555.9	555.9	555.9	555.9
177.5°	555.0	555.9	555.9	555.9	555.9
180°	555.9	555.9	555.9	555.9	555.9



TEST NUMBER: P934367

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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	13.10	14.03	13.98	14.94	16.09	15.93	16.87	16.82	17.78	18.93
	3H	13.58	14.42	14.48	15.33	16.51	17.29	18.13	18.19	19.04	20.22
	4H	13.77	14.57	14.69	15.49	16.68	17.74	18.53	18.65	19.45	20.64
	6H	13.90	14.63	14.82	15.56	16.76	18.03	18.76	18.95	19.69	20.89
	8H	13.90	14.60	14.83	15.54	16.74	18.11	18.80	19.04	19.75	20.95
	12H	13.87	14.54	14.81	15.48	16.70	18.15	18.81	19.09	19.75	20.98
4H	2H	14.14	14.93	15.06	15.86	17.04	16.35	17.15	17.27	18.07	19.26
	3H	15.17	15.84	16.10	16.79	17.99	17.87	18.53	18.80	19.48	20.68
	4H	15.45	16.06	16.39	17.00	18.23	18.40	19.00	19.34	19.95	21.18
	6H	15.58	16.10	16.54	17.07	18.30	18.77	19.29	19.73	20.26	21.49
	8H	15.59	16.08	16.55	17.04	18.28	18.88	19.37	19.84	20.33	21.57
	12H	15.56	16.00	16.54	16.98	18.23	18.94	19.38	19.92	20.36	21.61
8H	4H	15.91	16.40	16.87	17.36	18.61	18.53	19.02	19.49	19.98	21.22
	6H	16.18	16.58	17.16	17.59	18.83	18.97	19.37	19.95	20.38	21.62
	8H	16.22	16.58	17.21	17.57	18.83	19.13	19.48	20.12	20.48	21.74
	12H	16.21	16.52	17.20	17.51	18.82	19.23	19.54	20.22	20.53	21.84
12H	4H	15.92	16.36	16.90	17.34	18.59	18.50	18.94	19.47	19.92	21.17
	6H	16.24	16.60	17.23	17.59	18.85	18.97	19.33	19.96	20.32	21.58
	8H	16.31	16.62	17.30	17.61	18.92	19.14	19.45	20.13	20.44	21.74