

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: P934440

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934440
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

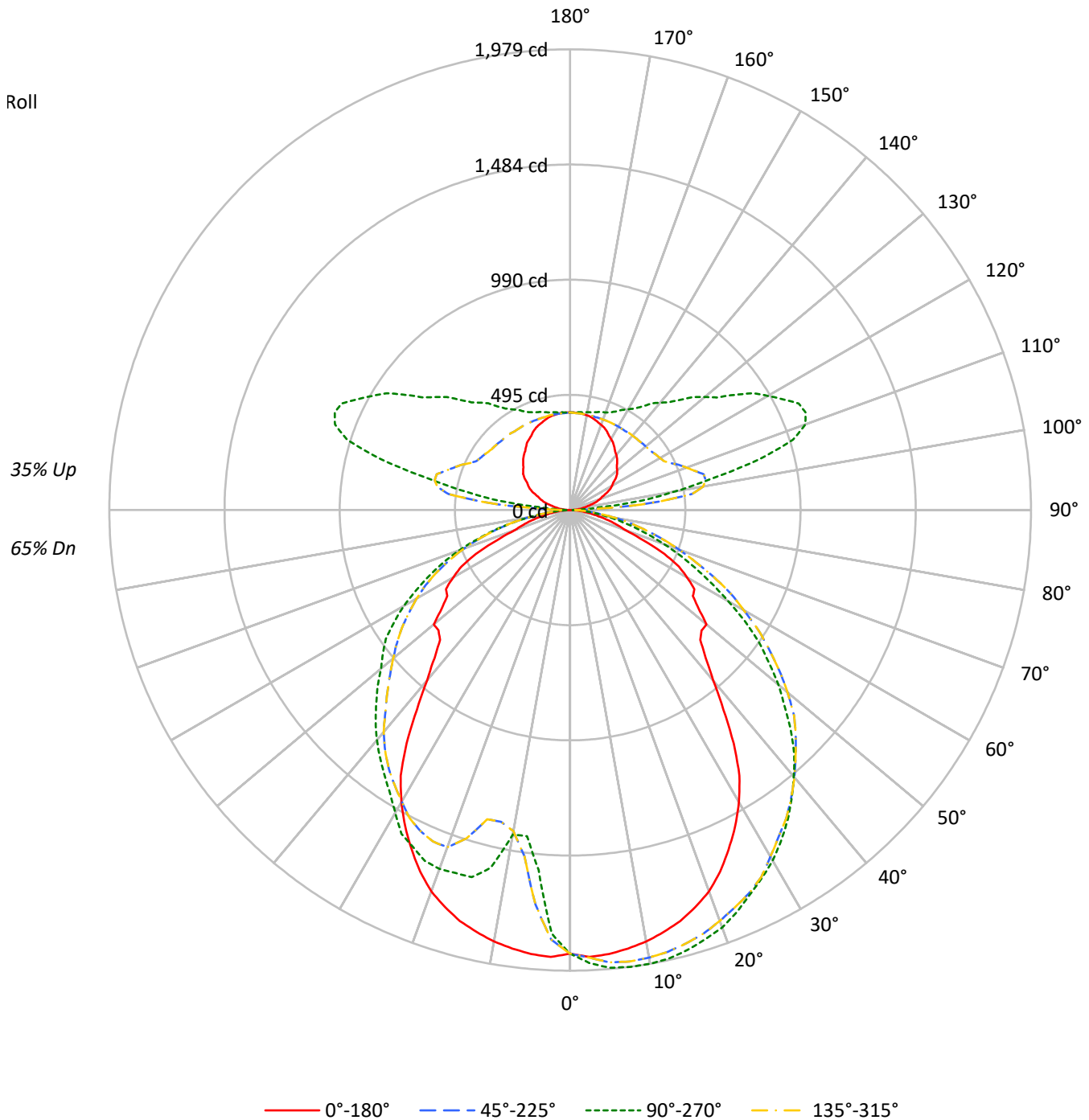
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7658.2 lumens
Efficiency: N/A
Efficacy: 113.0 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): 67.8
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	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11786	11786	11786	11786
5°	11870	11898	11870	9355
10°	11787	11721	11787	8379
15°	11654	11466	11654	9575
20°	11406	11166	11406	9594
25°	10903	10727	10903	9391
30°	10254	10362	10254	8945
35°	9137	9902	9137	8454
40°	7609	9360	7609	8084
45°	6795	8725	6795	7657
50°	7212	7967	7212	7229
55°	6780	7151	6780	6982
60°	6979	6074	6979	6395
65°	6319	5020	6319	5612
70°	4364	4001	4364	4704
75°	3814	2958	3814	3542
80°	3050	1956	3050	2130
85°	1717	1036	1717	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10420 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	2.2
10°-20°	488.3	6.4
20°-30°	754.9	9.9
30°-40°	901.2	11.8
40°-50°	906.4	11.8
50°-60°	788.7	10.3
60°-70°	559.2	7.3
70°-80°	295.9	3.9
80°-90°	75.3	1.0
90°-100°	204.3	2.7
100°-110°	537.0	7.0
110°-120°	556.8	7.3
120°-130°	446.6	5.8
130°-140°	350.4	4.6
140°-150°	269.0	3.5
150°-160°	193.7	2.5
160°-170°	118.5	1.5
170°-180°	40.0	0.5
0°-30°	1415.2	18.5
0°-40°	2316.3	30.2
0°-60°	4011.5	52.4
0°-90°	4941.8	64.5
90°-120°	1298.1	16.9
90°-150°	2364.1	30.9
90°-180°	2716.0	35.5
0°-180°	7658.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1905	1905	1905	1905	1905	
5°	1914	1974	1914	1552	1914	182
15°	1828	1956	1828	1633	1828	514
25°	1610	1824	1610	1597	1610	739
35°	1224	1628	1224	1390	1224	757
45°	790	1341	790	1177	790	632
55°	644	990	644	966	644	591
65°	447	597	447	667	447	427
75°	170	283	170	339	170	178
85°	29	72	29	61	29	39
90°	3	11	3	11	3	4
95°	27	123	27	123	27	30
105°	97	841	97	841	97	103
115°	172	1083	172	1083	172	170
125°	239	862	239	862	239	212
135°	285	669	285	669	285	220
145°	330	543	330	543	330	207
155°	374	467	374	467	374	172
165°	403	435	403	435	403	114
175°	419	422	419	422	419	40
180°	419	419	419	419	419	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1921.6	1921.6	1932.4	1936.0	1936.0	1930.6	1925.2	1930.6	1946.8	1952.3	1950.4
5°	1914.3	1928.8	1948.6	1952.3	1955.8	1954.0	1950.4	1954.0	1972.0	1975.6	1977.5
7.5°	1900.0	1927.0	1952.3	1957.6	1963.0	1957.6	1955.8	1959.4	1977.5	1981.1	1981.1
10°	1881.9	1919.8	1948.6	1952.3	1957.6	1952.3	1952.3	1959.4	1977.5	1981.1	1982.8
12.5°	1856.7	1909.0	1936.0	1939.6	1946.8	1945.0	1943.2	1950.4	1968.5	1972.0	1972.0
15°	1827.8	1889.1	1914.3	1918.0	1930.6	1927.0	1927.0	1934.2	1954.0	1959.4	1957.6
17.5°	1788.2	1863.8	1892.8	1898.1	1907.1	1905.3	1907.1	1914.3	1932.4	1936.0	1937.8
20°	1743.1	1829.6	1863.8	1869.3	1878.3	1878.3	1878.3	1887.3	1905.3	1912.6	1912.6
22.5°	1681.8	1793.6	1829.6	1833.3	1844.1	1844.1	1847.7	1860.3	1876.5	1878.3	1878.3
25°	1609.7	1754.0	1784.6	1795.4	1806.2	1811.6	1817.0	1824.3	1829.6	1827.8	1829.6
27.5°	1534.0	1703.5	1743.1	1750.3	1764.8	1770.2	1777.3	1779.2	1781.0	1786.3	1782.8
30°	1449.3	1633.2	1692.7	1699.8	1723.3	1726.9	1719.7	1723.3	1732.3	1736.0	1739.5
32.5°	1353.7	1528.6	1640.3	1656.6	1678.2	1667.4	1665.6	1671.0	1685.5	1685.5	1689.0
35°	1224.0	1447.5	1591.7	1606.1	1622.3	1609.7	1617.0	1618.7	1627.7	1633.2	1631.3
37.5°	1081.6	1377.2	1541.2	1552.0	1564.7	1548.5	1559.2	1564.7	1571.9	1568.3	1568.3
40°	955.4	1267.2	1481.7	1489.0	1499.8	1487.2	1498.0	1501.5	1505.2	1501.5	1499.8
42.5°	861.6	1146.4	1418.7	1427.7	1420.5	1429.5	1433.0	1440.3	1434.9	1427.7	1427.7
45°	789.6	1114.0	1350.2	1361.0	1350.2	1364.5	1370.0	1370.0	1353.7	1350.2	1348.4
47.5°	766.1	1049.1	1281.7	1281.7	1276.2	1294.2	1303.2	1290.7	1274.4	1269.0	1269.0
50°	764.3	977.0	1187.9	1180.7	1205.9	1227.6	1218.5	1205.9	1193.4	1173.5	1173.5
52.5°	694.0	888.7	1067.1	1094.2	1133.9	1146.4	1132.0	1119.4	1097.7	1088.7	1081.6
55°	643.6	796.8	957.2	1011.2	1052.7	1068.9	1041.9	1029.3	996.9	991.4	987.9
57.5°	632.7	663.4	856.2	924.7	975.2	973.4	957.2	933.7	906.7	901.3	899.5
60°	580.4	479.5	748.1	829.2	881.4	876.1	861.6	840.0	814.8	811.2	807.6
62.5°	526.3	347.9	625.5	717.4	791.4	789.6	776.9	744.4	726.4	717.4	710.2
65°	447.1	292.0	445.3	596.6	703.1	706.6	679.6	656.1	636.3	625.5	623.7
67.5°	340.7	238.0	301.0	497.5	618.3	614.7	580.4	569.6	544.4	539.0	528.1
70°	252.3	158.6	209.1	403.8	535.4	526.3	499.3	486.7	463.3	450.6	443.4
72.5°	209.1	128.0	153.2	313.6	450.6	439.8	416.4	402.0	382.1	371.3	364.1
75°	169.5	135.2	117.2	232.5	365.9	358.8	337.1	322.6	306.5	292.0	293.8
77.5°	124.3	126.2	93.7	171.3	290.2	279.4	266.8	248.8	241.5	227.1	227.1
80°	93.7	99.2	70.3	117.2	209.1	209.1	198.3	185.7	173.0	165.8	165.8
82.5°	63.1	63.1	52.3	73.9	142.4	137.0	129.8	126.2	119.0	115.3	115.3
85°	28.8	36.0	32.5	45.0	77.5	81.1	81.1	77.5	75.7	72.1	73.9
87.5°	9.0	16.2	19.8	25.2	39.7	41.5	43.3	43.3	43.3	45.0	45.0
90°	2.8	5.1	7.4	7.9	12.4	18.4	21.4	19.0	14.2	10.6	10.6
92.5°	11.3	30.4	49.5	54.3	76.3	105.7	120.3	105.4	75.7	53.4	51.3
95°	27.0	61.9	97.0	105.7	187.7	297.2	351.8	314.0	238.2	181.4	174.9
97.5°	46.7	77.6	108.4	116.2	253.0	435.4	526.5	502.6	454.6	418.7	406.4
100°	61.9	89.9	117.9	124.9	276.6	479.0	580.2	581.9	585.4	588.1	573.5
102.5°	74.8	101.0	127.1	133.6	287.5	492.8	595.4	625.8	686.9	732.6	720.2
105°	96.8	118.9	141.0	146.5	295.5	494.3	593.6	662.0	798.8	901.4	894.6
107.5°	119.3	139.9	160.5	165.6	297.1	472.3	559.9	655.2	846.0	989.0	990.7
110°	134.4	153.0	171.6	176.3	294.8	452.8	531.8	638.4	851.7	1011.6	1018.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.4	167.1	184.8	189.3	294.9	435.8	506.2	615.4	833.6	997.2	1008.0
115°	171.8	188.2	204.6	208.7	297.6	416.2	475.6	580.7	790.9	948.6	963.5
117.5°	194.0	208.9	223.8	227.5	303.2	404.1	454.5	549.3	739.1	881.3	897.9
120°	206.9	221.0	235.0	238.5	307.6	399.9	446.0	532.7	706.1	836.0	852.1
122.5°	219.7	233.8	247.9	251.4	314.1	397.7	439.5	517.6	673.8	790.8	806.7
125°	239.1	251.9	264.8	268.0	322.8	396.0	432.5	498.8	631.5	730.9	745.4
127.5°	254.8	267.8	280.8	284.1	331.6	395.0	426.6	483.6	597.4	682.8	695.1
130°	263.2	277.3	291.3	294.7	337.9	395.5	424.3	475.0	576.4	652.5	663.9
132.5°	272.0	286.0	300.0	303.5	343.1	396.0	422.4	467.8	558.5	626.6	636.7
135°	284.9	297.6	310.4	313.6	348.8	395.6	419.1	457.1	533.0	590.0	598.8
137.5°	298.1	310.7	323.3	326.5	357.1	398.0	418.4	450.5	514.8	563.0	570.2
140°	309.1	320.7	332.3	335.2	362.3	398.4	416.5	444.3	499.8	541.3	548.1
142.5°	317.5	328.2	338.9	341.7	366.6	399.9	416.5	440.9	489.6	526.1	532.0
145°	330.5	339.8	349.2	351.6	372.3	399.9	413.7	433.6	473.5	503.4	507.8
147.5°	343.4	352.5	361.7	363.9	380.5	402.6	413.7	429.3	460.7	484.3	487.9
150°	351.8	360.1	368.3	370.4	384.9	404.1	413.7	427.0	453.5	473.3	476.2
152.5°	360.5	366.8	373.0	374.6	387.6	405.0	413.7	425.0	447.6	464.6	466.7
155°	373.5	378.1	382.7	383.9	393.8	407.1	413.7	422.7	440.7	454.2	455.6
157.5°	383.0	387.5	392.1	393.1	400.0	409.2	413.7	420.7	434.7	445.2	446.2
160°	389.5	393.0	396.4	397.3	402.8	410.1	413.7	419.7	431.7	440.7	441.3
162.5°	396.0	398.6	401.2	401.9	405.8	411.1	413.7	418.8	428.9	436.4	437.0
165°	403.0	405.3	407.7	408.3	410.2	412.5	413.7	417.3	424.5	430.0	430.6
167.5°	409.4	410.5	411.7	412.0	413.5	415.5	416.5	418.9	423.6	427.2	427.4
170°	413.7	414.8	416.0	416.2	416.3	416.4	416.5	418.9	423.6	427.2	427.2
172.5°	416.0	416.2	416.4	416.5	416.5	416.5	416.5	418.3	422.1	424.9	424.7
175°	419.1	419.1	419.1	419.1	418.3	417.1	416.5	417.7	420.1	421.8	421.8
177.5°	419.1	419.1	419.1	419.1	418.4	417.5	417.1	418.0	419.9	421.3	421.0
180°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1954.0	1948.6	1954.0	1950.4	1952.3	1946.8	1930.6	1925.2	1930.6	1936.0	1936.0
5°	1977.5	1973.8	1977.5	1977.5	1975.6	1972.0	1954.0	1950.4	1954.0	1955.8	1952.3
7.5°	1984.6	1979.3	1984.6	1981.1	1981.1	1977.5	1959.4	1955.8	1957.6	1963.0	1957.6
10°	1984.6	1979.3	1984.6	1982.8	1981.1	1977.5	1959.4	1952.3	1952.3	1957.6	1952.3
12.5°	1975.6	1972.0	1975.6	1972.0	1972.0	1968.5	1950.4	1943.2	1945.0	1946.8	1939.6
15°	1961.3	1955.8	1961.3	1957.6	1959.4	1954.0	1934.2	1927.0	1927.0	1930.6	1918.0
17.5°	1939.6	1932.4	1939.6	1937.8	1936.0	1932.4	1914.3	1907.1	1905.3	1907.1	1898.1
20°	1914.3	1909.0	1914.3	1912.6	1912.6	1905.3	1887.3	1878.3	1878.3	1878.3	1869.3
22.5°	1874.7	1869.3	1874.7	1878.3	1878.3	1876.5	1860.3	1847.7	1844.1	1844.1	1833.3
25°	1829.6	1824.3	1829.6	1829.6	1827.8	1829.6	1824.3	1817.0	1811.6	1806.2	1795.4
27.5°	1786.3	1782.8	1786.3	1782.8	1786.3	1781.0	1779.2	1777.3	1770.2	1764.8	1750.3
30°	1743.1	1739.5	1743.1	1739.5	1736.0	1732.3	1723.3	1719.7	1726.9	1723.3	1699.8
32.5°	1689.0	1685.5	1689.0	1689.0	1685.5	1685.5	1671.0	1665.6	1667.4	1678.2	1656.6
35°	1633.2	1627.7	1633.2	1631.3	1633.2	1627.7	1618.7	1617.0	1609.7	1622.3	1606.1
37.5°	1568.3	1562.8	1568.3	1568.3	1568.3	1571.9	1564.7	1559.2	1548.5	1564.7	1552.0
40°	1501.5	1494.4	1501.5	1499.8	1501.5	1505.2	1501.5	1498.0	1487.2	1499.8	1489.0
42.5°	1425.9	1424.0	1425.9	1427.7	1427.7	1434.9	1440.3	1433.0	1429.5	1420.5	1427.7
45°	1344.7	1341.2	1344.7	1348.4	1350.2	1353.7	1370.0	1370.0	1364.5	1350.2	1361.0
47.5°	1258.2	1249.2	1258.2	1269.0	1269.0	1274.4	1290.7	1303.2	1294.2	1276.2	1281.7
50°	1166.2	1168.1	1166.2	1173.5	1173.5	1193.4	1205.9	1218.5	1227.6	1205.9	1180.7
52.5°	1076.2	1074.4	1076.2	1081.6	1088.7	1097.7	1119.4	1132.0	1146.4	1133.9	1094.2
55°	986.0	989.6	986.0	987.9	991.4	996.9	1029.3	1041.9	1068.9	1052.7	1011.2
57.5°	895.9	890.4	895.9	899.5	901.3	906.7	933.7	957.2	973.4	975.2	924.7
60°	791.4	784.1	791.4	807.6	811.2	814.8	840.0	861.6	876.1	881.4	829.2
62.5°	699.4	686.8	699.4	710.2	717.4	726.4	744.4	776.9	789.6	791.4	717.4
65°	602.1	596.6	602.1	623.7	625.5	636.3	656.1	679.6	706.6	703.1	596.6
67.5°	513.8	513.8	513.8	528.1	539.0	544.4	569.6	580.4	614.7	618.3	497.5
70°	432.6	430.8	432.6	443.4	450.6	463.3	486.7	499.3	526.3	535.4	403.8
72.5°	355.1	353.3	355.1	364.1	371.3	382.1	402.0	416.4	439.8	450.6	313.6
75°	286.6	283.0	286.6	293.8	292.0	306.5	322.6	337.1	358.8	365.9	232.5
77.5°	220.0	220.0	220.0	227.1	227.1	241.5	248.8	266.8	279.4	290.2	171.3
80°	164.0	162.3	164.0	165.8	165.8	173.0	185.7	198.3	209.1	209.1	117.2
82.5°	115.3	111.8	115.3	115.3	115.3	119.0	126.2	129.8	137.0	142.4	73.9
85°	72.1	72.1	72.1	73.9	72.1	75.7	77.5	81.1	81.1	77.5	45.0
87.5°	46.8	45.0	46.8	45.0	45.0	43.3	43.3	43.3	41.5	39.7	25.2
90°	10.6	10.6	10.6	10.6	10.6	14.2	19.0	21.4	18.4	12.4	7.9
92.5°	42.8	34.3	42.8	51.3	53.4	75.7	105.4	120.3	105.7	76.3	54.3
95°	149.2	123.4	149.2	174.9	181.4	238.2	314.0	351.8	297.2	187.7	105.7
97.5°	357.5	308.5	357.5	406.4	418.7	454.6	502.6	526.5	435.4	253.0	116.2
100°	515.1	456.7	515.1	573.5	588.1	585.4	581.9	580.2	479.0	276.6	124.9
102.5°	670.1	620.1	670.1	720.2	732.6	686.9	625.8	595.4	492.8	287.5	133.6
105°	867.8	840.9	867.8	894.6	901.4	798.8	662.0	593.6	494.3	295.5	146.5
107.5°	997.1	1003.7	997.1	990.7	989.0	846.0	655.2	559.9	472.3	297.1	165.6
110°	1046.5	1074.6	1046.5	1018.6	1011.6	851.7	638.4	531.8	452.8	294.8	176.3



TEST NUMBER: P934440

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1051.0	1093.9	1051.0	1008.0	997.2	833.6	615.4	506.2	435.8	294.9	189.3
115°	1023.1	1082.7	1023.1	963.5	948.6	790.9	580.7	475.6	416.2	297.6	208.7
117.5°	964.0	1030.2	964.0	897.9	881.3	739.1	549.3	454.5	404.1	303.2	227.5
120°	916.4	980.7	916.4	852.1	836.0	706.1	532.7	446.0	399.9	307.6	238.5
122.5°	870.1	933.4	870.1	806.7	790.8	673.8	517.6	439.5	397.7	314.1	251.4
125°	803.8	862.2	803.8	745.4	730.9	631.5	498.8	432.5	396.0	322.8	268.0
127.5°	744.4	793.7	744.4	695.1	682.8	597.4	483.6	426.6	395.0	331.6	284.1
130°	709.3	754.8	709.3	663.9	652.5	576.4	475.0	424.3	395.5	337.9	294.7
132.5°	677.5	718.2	677.5	636.7	626.6	558.5	467.8	422.4	396.0	343.1	303.5
135°	633.9	669.0	633.9	598.8	590.0	533.0	457.1	419.1	395.6	348.8	313.6
137.5°	599.0	627.7	599.0	570.2	563.0	514.8	450.5	418.4	398.0	357.1	326.5
140°	574.9	601.8	574.9	548.1	541.3	499.8	444.3	416.5	398.4	362.3	335.2
142.5°	555.1	578.2	555.1	532.0	526.1	489.6	440.9	416.5	399.9	366.6	341.7
145°	525.3	542.8	525.3	507.8	503.4	473.5	433.6	413.7	399.9	372.3	351.6
147.5°	502.4	516.9	502.4	487.9	484.3	460.7	429.3	413.7	402.6	380.5	363.9
150°	488.0	499.8	488.0	476.2	473.3	453.5	427.0	413.7	404.1	384.9	370.4
152.5°	475.6	484.6	475.6	466.7	464.6	447.6	425.0	413.7	405.0	387.6	374.6
155°	461.5	467.4	461.5	455.6	454.2	440.7	422.7	413.7	407.1	393.8	383.9
157.5°	450.4	454.5	450.4	446.2	445.2	434.7	420.7	413.7	409.2	400.0	393.1
160°	443.6	446.0	443.6	441.3	440.7	431.7	419.7	413.7	410.1	402.8	397.3
162.5°	439.3	441.5	439.3	437.0	436.4	428.9	418.8	413.7	411.1	405.8	401.9
165°	433.0	435.4	433.0	430.6	430.0	424.5	417.3	413.7	412.5	410.2	408.3
167.5°	428.4	429.4	428.4	427.4	427.2	423.6	418.9	416.5	415.5	413.5	412.0
170°	427.2	427.2	427.2	427.2	427.2	423.6	418.9	416.5	416.4	416.3	416.2
172.5°	423.8	423.0	423.8	424.7	424.9	422.1	418.3	416.5	416.5	416.5	416.5
175°	421.8	421.8	421.8	421.8	421.8	420.1	417.7	416.5	417.1	418.3	419.1
177.5°	420.1	419.1	420.1	421.0	421.3	419.9	418.0	417.1	417.5	418.4	419.1
180°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1



TEST NUMBER: P934440

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1932.4	1921.6	1921.6	1903.5	1896.3	1891.0	1881.9	1854.8	1847.7	1840.5	1851.3
5°	1948.6	1928.8	1914.3	1881.9	1854.8	1844.1	1809.8	1745.0	1701.7	1669.2	1651.2
7.5°	1952.3	1927.0	1900.0	1849.5	1784.6	1755.7	1651.2	1532.2	1499.8	1470.9	1452.9
10°	1948.6	1919.8	1881.9	1806.2	1653.0	1602.5	1498.0	1420.5	1400.7	1395.2	1400.7
12.5°	1936.0	1909.0	1856.7	1730.5	1516.0	1481.7	1420.5	1375.4	1371.8	1380.8	1429.5
15°	1914.3	1889.1	1827.8	1629.5	1440.3	1415.0	1371.8	1355.5	1375.4	1438.5	1584.5
17.5°	1892.8	1863.8	1788.2	1530.4	1382.6	1364.5	1333.9	1366.4	1478.2	1562.8	1611.5
20°	1863.8	1829.6	1743.1	1458.3	1341.2	1324.9	1310.5	1456.5	1541.2	1571.9	1598.9
22.5°	1829.6	1793.6	1681.8	1407.8	1297.9	1285.2	1294.2	1507.0	1541.2	1562.8	1586.3
25°	1784.6	1754.0	1609.7	1368.2	1263.7	1249.2	1283.5	1501.5	1521.4	1526.8	1573.7
27.5°	1743.1	1703.5	1534.0	1332.2	1222.2	1216.7	1292.5	1478.2	1492.5	1498.0	1548.5
30°	1692.7	1633.2	1449.3	1294.2	1178.9	1177.1	1294.2	1449.3	1445.7	1460.1	1510.5
32.5°	1640.3	1528.6	1353.7	1247.4	1137.4	1135.7	1281.7	1406.0	1402.4	1422.2	1460.1
35°	1591.7	1447.5	1224.0	1193.4	1085.2	1086.9	1251.0	1355.5	1357.4	1375.4	1398.8
37.5°	1541.2	1377.2	1081.6	1133.9	1034.7	1034.7	1209.5	1308.7	1305.1	1310.5	1342.9
40°	1481.7	1267.2	955.4	1056.4	987.9	982.4	1159.1	1258.2	1245.6	1243.8	1288.9
42.5°	1418.7	1146.4	861.6	953.6	933.7	926.6	1097.7	1196.9	1173.5	1178.9	1236.6
45°	1350.2	1114.0	789.6	805.8	877.9	872.4	1031.1	1126.6	1110.4	1124.9	1184.3
47.5°	1281.7	1049.1	766.1	668.8	818.4	816.6	957.2	1058.1	1049.1	1063.5	1126.6
50°	1187.9	977.0	764.3	573.3	751.7	758.9	868.9	991.4	991.4	1004.1	1070.7
52.5°	1067.1	888.7	694.0	519.1	674.1	695.8	791.4	933.7	937.4	949.9	1009.4
55°	957.2	796.8	643.6	477.7	582.3	629.1	715.6	874.3	881.4	894.1	948.2
57.5°	856.2	663.4	632.7	429.0	497.5	542.6	648.9	816.6	820.2	831.0	883.3
60°	748.1	479.5	580.4	376.8	423.6	457.8	587.6	748.1	760.7	767.9	812.9
62.5°	625.5	347.9	526.3	340.7	387.6	394.8	537.1	683.2	699.4	704.8	731.9
65°	445.3	292.0	447.1	310.0	349.7	351.5	483.1	616.5	630.9	639.9	659.8
67.5°	301.0	238.0	340.7	281.2	320.8	322.6	430.8	539.0	558.8	566.0	578.6
70°	209.1	158.6	252.3	250.6	288.4	292.0	375.0	468.6	486.7	492.1	499.3
72.5°	153.2	128.0	209.1	225.3	254.2	257.8	317.3	389.3	407.4	412.8	416.4
75°	117.2	135.2	169.5	196.5	216.3	218.1	259.6	317.3	329.8	333.5	335.3
77.5°	93.7	126.2	124.3	158.6	176.7	173.0	203.7	245.1	256.0	256.0	256.0
80°	70.3	99.2	93.7	113.5	129.8	126.2	146.0	174.8	178.5	182.0	180.3
82.5°	52.3	63.1	63.1	72.1	86.5	83.0	97.3	113.5	113.5	113.5	117.2
85°	32.5	36.0	28.8	37.8	48.7	46.8	54.1	61.3	63.1	63.1	59.5
87.5°	19.8	16.2	9.0	14.5	21.6	21.6	25.2	27.0	25.2	25.2	25.2
90°	7.4	5.1	2.8	5.1	7.4	7.9	12.4	18.4	21.4	19.0	14.2
92.5°	49.5	30.4	11.3	30.4	49.5	54.3	76.3	105.7	120.3	105.4	75.7
95°	97.0	61.9	27.0	61.9	97.0	105.7	187.7	297.2	351.8	314.0	238.2
97.5°	108.4	77.6	46.7	77.6	108.4	116.2	253.0	435.4	526.5	502.6	454.6
100°	117.9	89.9	61.9	89.9	117.9	124.9	276.6	479.0	580.2	581.9	585.4
102.5°	127.1	101.0	74.8	101.0	127.1	133.6	287.5	492.8	595.4	625.8	686.9
105°	141.0	118.9	96.8	118.9	141.0	146.5	295.5	494.3	593.6	662.0	798.8
107.5°	160.5	139.9	119.3	139.9	160.5	165.6	297.1	472.3	559.9	655.2	846.0
110°	171.6	153.0	134.4	153.0	171.6	176.3	294.8	452.8	531.8	638.4	851.7



TEST NUMBER: P934440

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	184.8	167.1	149.4	167.1	184.8	189.3	294.9	435.8	506.2	615.4	833.6
115°	204.6	188.2	171.8	188.2	204.6	208.7	297.6	416.2	475.6	580.7	790.9
117.5°	223.8	208.9	194.0	208.9	223.8	227.5	303.2	404.1	454.5	549.3	739.1
120°	235.0	221.0	206.9	221.0	235.0	238.5	307.6	399.9	446.0	532.7	706.1
122.5°	247.9	233.8	219.7	233.8	247.9	251.4	314.1	397.7	439.5	517.6	673.8
125°	264.8	251.9	239.1	251.9	264.8	268.0	322.8	396.0	432.5	498.8	631.5
127.5°	280.8	267.8	254.8	267.8	280.8	284.1	331.6	395.0	426.6	483.6	597.4
130°	291.3	277.3	263.2	277.3	291.3	294.7	337.9	395.5	424.3	475.0	576.4
132.5°	300.0	286.0	272.0	286.0	300.0	303.5	343.1	396.0	422.4	467.8	558.5
135°	310.4	297.6	284.9	297.6	310.4	313.6	348.8	395.6	419.1	457.1	533.0
137.5°	323.3	310.7	298.1	310.7	323.3	326.5	357.1	398.0	418.4	450.5	514.8
140°	332.3	320.7	309.1	320.7	332.3	335.2	362.3	398.4	416.5	444.3	499.8
142.5°	338.9	328.2	317.5	328.2	338.9	341.7	366.6	399.9	416.5	440.9	489.6
145°	349.2	339.8	330.5	339.8	349.2	351.6	372.3	399.9	413.7	433.6	473.5
147.5°	361.7	352.5	343.4	352.5	361.7	363.9	380.5	402.6	413.7	429.3	460.7
150°	368.3	360.1	351.8	360.1	368.3	370.4	384.9	404.1	413.7	427.0	453.5
152.5°	373.0	366.8	360.5	366.8	373.0	374.6	387.6	405.0	413.7	425.0	447.6
155°	382.7	378.1	373.5	378.1	382.7	383.9	393.8	407.1	413.7	422.7	440.7
157.5°	392.1	387.5	383.0	387.5	392.1	393.1	400.0	409.2	413.7	420.7	434.7
160°	396.4	393.0	389.5	393.0	396.4	397.3	402.8	410.1	413.7	419.7	431.7
162.5°	401.2	398.6	396.0	398.6	401.2	401.9	405.8	411.1	413.7	418.8	428.9
165°	407.7	405.3	403.0	405.3	407.7	408.3	410.2	412.5	413.7	417.3	424.5
167.5°	411.7	410.5	409.4	410.5	411.7	412.0	413.5	415.5	416.5	418.9	423.6
170°	416.0	414.8	413.7	414.8	416.0	416.2	416.3	416.4	416.5	418.9	423.6
172.5°	416.4	416.2	416.0	416.2	416.4	416.5	416.5	416.5	416.5	418.3	422.1
175°	419.1	419.1	419.1	419.1	419.1	419.1	418.3	417.1	416.5	417.7	420.1
177.5°	419.1	419.1	419.1	419.1	419.1	419.1	418.4	417.5	417.1	418.0	419.9
180°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1



TEST NUMBER: P934440

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1838.6	1833.3	1840.5	1820.6	1840.5	1833.3	1838.6	1851.3	1840.5	1847.7	1854.8
5°	1613.3	1604.3	1575.5	1552.0	1575.5	1604.3	1613.3	1651.2	1669.2	1701.7	1745.0
7.5°	1442.0	1434.9	1427.7	1413.2	1427.7	1434.9	1442.0	1452.9	1470.9	1499.8	1532.2
10°	1404.2	1406.0	1416.9	1415.0	1416.9	1406.0	1404.2	1400.7	1395.2	1400.7	1420.5
12.5°	1501.5	1517.8	1577.3	1573.7	1577.3	1517.8	1501.5	1429.5	1380.8	1371.8	1375.4
15°	1613.3	1618.7	1631.3	1633.2	1631.3	1618.7	1613.3	1584.5	1438.5	1375.4	1355.5
17.5°	1624.2	1626.0	1635.0	1635.0	1635.0	1626.0	1624.2	1611.5	1562.8	1478.2	1366.4
20°	1615.2	1618.7	1636.8	1640.3	1636.8	1618.7	1615.2	1598.9	1571.9	1541.2	1456.5
22.5°	1611.5	1618.7	1633.2	1631.3	1633.2	1618.7	1611.5	1586.3	1562.8	1541.2	1507.0
25°	1593.5	1593.5	1595.3	1597.1	1595.3	1593.5	1593.5	1573.7	1526.8	1521.4	1501.5
27.5°	1555.7	1559.2	1570.0	1568.3	1570.0	1559.2	1555.7	1548.5	1498.0	1492.5	1478.2
30°	1521.4	1517.8	1508.8	1501.5	1508.8	1517.8	1521.4	1510.5	1460.1	1445.7	1449.3
32.5°	1463.7	1454.7	1445.7	1440.3	1445.7	1454.7	1463.7	1460.1	1422.2	1402.4	1406.0
35°	1395.2	1397.0	1395.2	1389.8	1395.2	1397.0	1395.2	1398.8	1375.4	1357.4	1355.5
37.5°	1346.5	1350.2	1348.4	1341.2	1348.4	1350.2	1346.5	1342.9	1310.5	1305.1	1308.7
40°	1296.1	1297.9	1296.1	1290.7	1296.1	1297.9	1296.1	1288.9	1243.8	1245.6	1258.2
42.5°	1247.4	1245.6	1240.2	1236.6	1240.2	1245.6	1247.4	1236.6	1178.9	1173.5	1196.9
45°	1191.5	1193.4	1182.5	1177.1	1182.5	1193.4	1191.5	1184.3	1124.9	1110.4	1126.6
47.5°	1135.7	1135.7	1126.6	1121.2	1126.6	1135.7	1135.7	1126.6	1063.5	1049.1	1058.1
50°	1076.2	1074.4	1061.7	1059.9	1061.7	1074.4	1076.2	1070.7	1004.1	991.4	991.4
52.5°	1007.7	1007.7	1009.4	1013.1	1009.4	1007.7	1007.7	1009.4	949.9	937.4	933.7
55°	948.2	949.9	962.6	966.2	962.6	949.9	948.2	948.2	894.1	881.4	874.3
57.5°	886.9	886.9	895.9	895.9	895.9	886.9	886.9	883.3	831.0	820.2	816.6
60°	816.6	820.2	827.4	825.6	827.4	820.2	816.6	812.9	767.9	760.7	748.1
62.5°	742.6	746.3	748.1	744.4	748.1	746.3	742.6	731.9	704.8	699.4	683.2
65°	665.1	668.8	670.6	666.9	670.6	668.8	665.1	659.8	639.9	630.9	616.5
67.5°	585.8	584.1	582.3	589.4	582.3	584.1	585.8	578.6	566.0	558.8	539.0
70°	504.8	504.8	502.9	506.5	502.9	504.8	504.8	499.3	492.1	486.7	468.6
72.5°	418.2	416.4	423.6	418.2	423.6	416.4	418.2	416.4	412.8	407.4	389.3
75°	333.5	337.1	333.5	338.9	333.5	337.1	333.5	335.3	333.5	329.8	317.3
77.5°	254.2	257.8	254.2	254.2	254.2	257.8	254.2	256.0	256.0	256.0	245.1
80°	180.3	178.5	178.5	176.7	178.5	178.5	180.3	180.3	182.0	178.5	174.8
82.5°	115.3	113.5	113.5	117.2	113.5	113.5	115.3	117.2	113.5	113.5	113.5
85°	63.1	64.9	61.3	61.3	61.3	64.9	63.1	59.5	63.1	63.1	61.3
87.5°	23.5	21.6	21.6	21.6	21.6	21.6	23.5	25.2	25.2	25.2	27.0
90°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.2	19.0	21.4	18.4
92.5°	53.4	51.3	42.8	34.3	42.8	51.3	53.4	75.7	105.4	120.3	105.7
95°	181.4	174.9	149.2	123.4	149.2	174.9	181.4	238.2	314.0	351.8	297.2
97.5°	418.7	406.4	357.5	308.5	357.5	406.4	418.7	454.6	502.6	526.5	435.4
100°	588.1	573.5	515.1	456.7	515.1	573.5	588.1	585.4	581.9	580.2	479.0
102.5°	732.6	720.2	670.1	620.1	670.1	720.2	732.6	686.9	625.8	595.4	492.8
105°	901.4	894.6	867.8	840.9	867.8	894.6	901.4	798.8	662.0	593.6	494.3
107.5°	989.0	990.7	997.1	1003.7	997.1	990.7	989.0	846.0	655.2	559.9	472.3
110°	1011.6	1018.6	1046.5	1074.6	1046.5	1018.6	1011.6	851.7	638.4	531.8	452.8



TEST NUMBER: P934440

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	997.2	1008.0	1051.0	1093.9	1051.0	1008.0	997.2	833.6	615.4	506.2	435.8
115°	948.6	963.5	1023.1	1082.7	1023.1	963.5	948.6	790.9	580.7	475.6	416.2
117.5°	881.3	897.9	964.0	1030.2	964.0	897.9	881.3	739.1	549.3	454.5	404.1
120°	836.0	852.1	916.4	980.7	916.4	852.1	836.0	706.1	532.7	446.0	399.9
122.5°	790.8	806.7	870.1	933.4	870.1	806.7	790.8	673.8	517.6	439.5	397.7
125°	730.9	745.4	803.8	862.2	803.8	745.4	730.9	631.5	498.8	432.5	396.0
127.5°	682.8	695.1	744.4	793.7	744.4	695.1	682.8	597.4	483.6	426.6	395.0
130°	652.5	663.9	709.3	754.8	709.3	663.9	652.5	576.4	475.0	424.3	395.5
132.5°	626.6	636.7	677.5	718.2	677.5	636.7	626.6	558.5	467.8	422.4	396.0
135°	590.0	598.8	633.9	669.0	633.9	598.8	590.0	533.0	457.1	419.1	395.6
137.5°	563.0	570.2	599.0	627.7	599.0	570.2	563.0	514.8	450.5	418.4	398.0
140°	541.3	548.1	574.9	601.8	574.9	548.1	541.3	499.8	444.3	416.5	398.4
142.5°	526.1	532.0	555.1	578.2	555.1	532.0	526.1	489.6	440.9	416.5	399.9
145°	503.4	507.8	525.3	542.8	525.3	507.8	503.4	473.5	433.6	413.7	399.9
147.5°	484.3	487.9	502.4	516.9	502.4	487.9	484.3	460.7	429.3	413.7	402.6
150°	473.3	476.2	488.0	499.8	488.0	476.2	473.3	453.5	427.0	413.7	404.1
152.5°	464.6	466.7	475.6	484.6	475.6	466.7	464.6	447.6	425.0	413.7	405.0
155°	454.2	455.6	461.5	467.4	461.5	455.6	454.2	440.7	422.7	413.7	407.1
157.5°	445.2	446.2	450.4	454.5	450.4	446.2	445.2	434.7	420.7	413.7	409.2
160°	440.7	441.3	443.6	446.0	443.6	441.3	440.7	431.7	419.7	413.7	410.1
162.5°	436.4	437.0	439.3	441.5	439.3	437.0	436.4	428.9	418.8	413.7	411.1
165°	430.0	430.6	433.0	435.4	433.0	430.6	430.0	424.5	417.3	413.7	412.5
167.5°	427.2	427.4	428.4	429.4	428.4	427.4	427.2	423.6	418.9	416.5	415.5
170°	427.2	427.2	427.2	427.2	427.2	427.2	427.2	423.6	418.9	416.5	416.4
172.5°	424.9	424.7	423.8	423.0	423.8	424.7	424.9	422.1	418.3	416.5	416.5
175°	421.8	421.8	421.8	421.8	421.8	421.8	421.8	420.1	417.7	416.5	417.1
177.5°	421.3	421.0	420.1	419.1	420.1	421.0	421.3	419.9	418.0	417.1	417.5
180°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1



TEST NUMBER: P934440

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1881.9	1891.0	1896.3	1903.5	1921.6
5°	1809.8	1844.1	1854.8	1881.9	1914.3
7.5°	1651.2	1755.7	1784.6	1849.5	1900.0
10°	1498.0	1602.5	1653.0	1806.2	1881.9
12.5°	1420.5	1481.7	1516.0	1730.5	1856.7
15°	1371.8	1415.0	1440.3	1629.5	1827.8
17.5°	1333.9	1364.5	1382.6	1530.4	1788.2
20°	1310.5	1324.9	1341.2	1458.3	1743.1
22.5°	1294.2	1285.2	1297.9	1407.8	1681.8
25°	1283.5	1249.2	1263.7	1368.2	1609.7
27.5°	1292.5	1216.7	1222.2	1332.2	1534.0
30°	1294.2	1177.1	1178.9	1294.2	1449.3
32.5°	1281.7	1135.7	1137.4	1247.4	1353.7
35°	1251.0	1086.9	1085.2	1193.4	1224.0
37.5°	1209.5	1034.7	1034.7	1133.9	1081.6
40°	1159.1	982.4	987.9	1056.4	955.4
42.5°	1097.7	926.6	933.7	953.6	861.6
45°	1031.1	872.4	877.9	805.8	789.6
47.5°	957.2	816.6	818.4	668.8	766.1
50°	868.9	758.9	751.7	573.3	764.3
52.5°	791.4	695.8	674.1	519.1	694.0
55°	715.6	629.1	582.3	477.7	643.6
57.5°	648.9	542.6	497.5	429.0	632.7
60°	587.6	457.8	423.6	376.8	580.4
62.5°	537.1	394.8	387.6	340.7	526.3
65°	483.1	351.5	349.7	310.0	447.1
67.5°	430.8	322.6	320.8	281.2	340.7
70°	375.0	292.0	288.4	250.6	252.3
72.5°	317.3	257.8	254.2	225.3	209.1
75°	259.6	218.1	216.3	196.5	169.5
77.5°	203.7	173.0	176.7	158.6	124.3
80°	146.0	126.2	129.8	113.5	93.7
82.5°	97.3	83.0	86.5	72.1	63.1
85°	54.1	46.8	48.7	37.8	28.8
87.5°	25.2	21.6	21.6	14.5	9.0
90°	12.4	7.9	7.4	5.1	2.8
92.5°	76.3	54.3	49.5	30.4	11.3
95°	187.7	105.7	97.0	61.9	27.0
97.5°	253.0	116.2	108.4	77.6	46.7
100°	276.6	124.9	117.9	89.9	61.9
102.5°	287.5	133.6	127.1	101.0	74.8
105°	295.5	146.5	141.0	118.9	96.8
107.5°	297.1	165.6	160.5	139.9	119.3
110°	294.8	176.3	171.6	153.0	134.4



TEST NUMBER: P934440

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	294.9	189.3	184.8	167.1	149.4
115°	297.6	208.7	204.6	188.2	171.8
117.5°	303.2	227.5	223.8	208.9	194.0
120°	307.6	238.5	235.0	221.0	206.9
122.5°	314.1	251.4	247.9	233.8	219.7
125°	322.8	268.0	264.8	251.9	239.1
127.5°	331.6	284.1	280.8	267.8	254.8
130°	337.9	294.7	291.3	277.3	263.2
132.5°	343.1	303.5	300.0	286.0	272.0
135°	348.8	313.6	310.4	297.6	284.9
137.5°	357.1	326.5	323.3	310.7	298.1
140°	362.3	335.2	332.3	320.7	309.1
142.5°	366.6	341.7	338.9	328.2	317.5
145°	372.3	351.6	349.2	339.8	330.5
147.5°	380.5	363.9	361.7	352.5	343.4
150°	384.9	370.4	368.3	360.1	351.8
152.5°	387.6	374.6	373.0	366.8	360.5
155°	393.8	383.9	382.7	378.1	373.5
157.5°	400.0	393.1	392.1	387.5	383.0
160°	402.8	397.3	396.4	393.0	389.5
162.5°	405.8	401.9	401.2	398.6	396.0
165°	410.2	408.3	407.7	405.3	403.0
167.5°	413.5	412.0	411.7	410.5	409.4
170°	416.3	416.2	416.0	414.8	413.7
172.5°	416.5	416.5	416.4	416.2	416.0
175°	418.3	419.1	419.1	419.1	419.1
177.5°	418.4	419.1	419.1	419.1	419.1
180°	419.1	419.1	419.1	419.1	419.1



TEST NUMBER: P934440

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-4000K

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	14.62	15.63	15.44	16.47	17.52	17.44	18.45	18.26	19.29	20.34
	3H	15.10	16.01	15.94	16.86	17.94	18.80	19.70	19.63	20.55	21.63
	4H	15.30	16.16	16.15	17.02	18.10	19.25	20.10	20.10	20.96	22.05
	6H	15.43	16.22	16.29	17.09	18.19	19.54	20.33	20.40	21.19	22.29
	8H	15.43	16.19	16.31	17.07	18.17	19.61	20.37	20.49	21.25	22.35
	12H	15.41	16.13	16.29	17.01	18.13	19.66	20.37	20.54	21.25	22.38
4H	2H	15.67	16.52	16.52	17.38	18.47	17.87	18.72	18.72	19.58	20.67
	3H	16.71	17.42	17.57	18.31	19.41	19.39	20.10	20.25	20.99	22.09
	4H	16.99	17.64	17.87	18.53	19.66	19.92	20.57	20.80	21.46	22.59
	6H	17.12	17.68	18.02	18.60	19.73	20.29	20.85	21.19	21.77	22.90
	8H	17.13	17.65	18.03	18.56	19.71	20.40	20.92	21.30	21.83	22.98
	12H	17.11	17.58	18.02	18.50	19.65	20.46	20.93	21.38	21.86	23.01
8H	4H	17.45	17.98	18.35	18.89	20.03	20.06	20.58	20.95	21.49	22.63
	6H	17.72	18.15	18.65	19.10	20.25	20.50	20.93	21.42	21.88	23.02
	8H	17.76	18.15	18.70	19.09	20.25	20.65	21.03	21.58	21.98	23.14
	12H	17.76	18.09	18.69	19.03	20.24	20.75	21.09	21.69	22.03	23.24
12H	4H	17.47	17.94	18.38	18.87	20.02	20.03	20.50	20.94	21.43	22.58
	6H	17.78	18.17	18.72	19.11	20.27	20.49	20.88	21.43	21.82	22.98
	8H	17.86	18.19	18.79	19.13	20.34	20.66	21.00	21.60	21.94	23.15