

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: P933855

Luminaire Tested: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933855
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

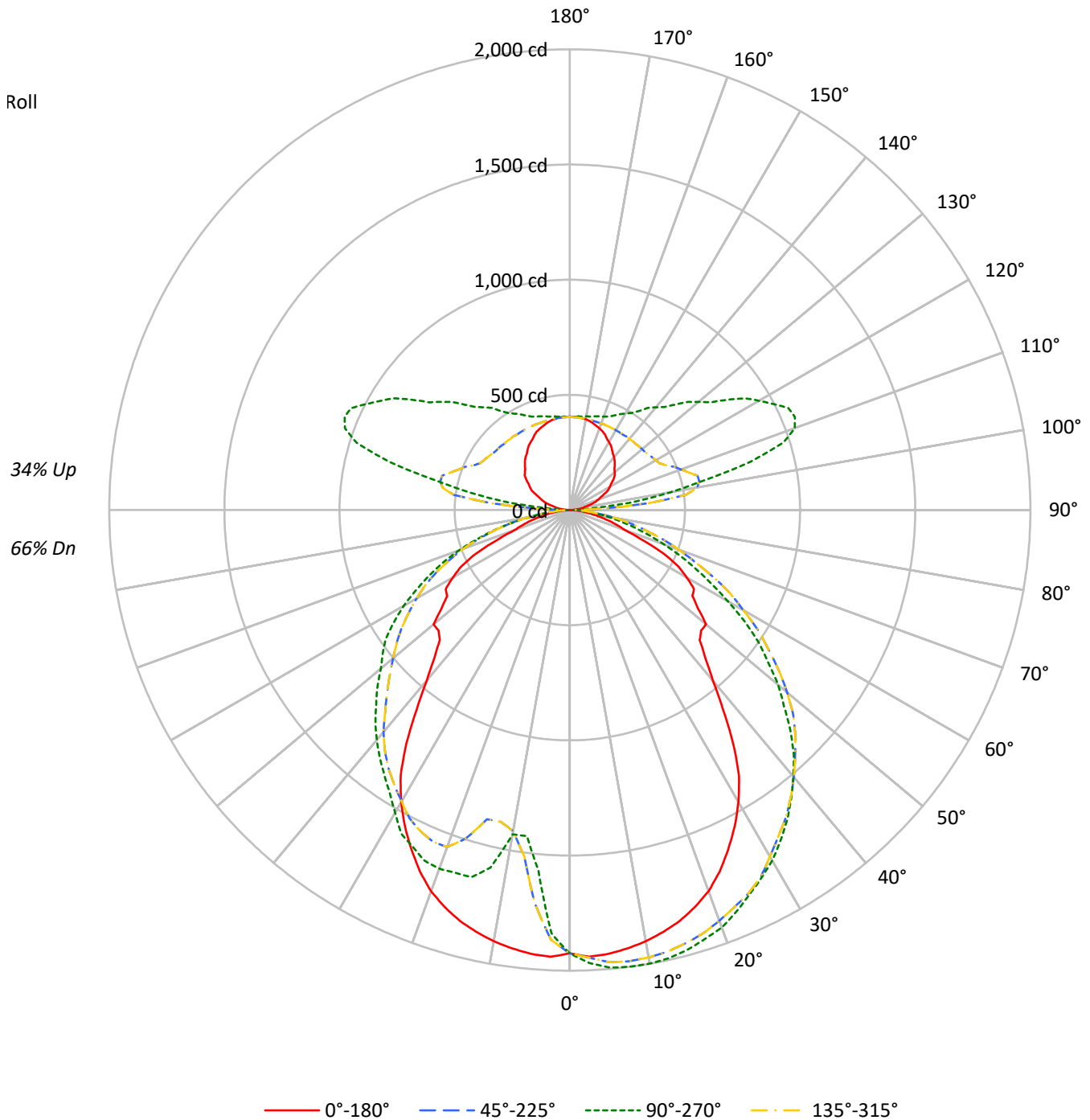
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7619.6 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 66
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	70	70	70	66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	50	50	50	46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	43	43	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	37	37	37	34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	32	32	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	28	28	28	26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	25	25	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5954	5954	5954	5954
5°	6001	6010	6001	4726
10°	5963	5920	5963	4233
15°	5900	5792	5900	4836
20°	5779	5640	5779	4847
25°	5529	5419	5529	4744
30°	5204	5235	5204	4519
35°	4642	5002	4642	4271
40°	3870	4728	3870	4084
45°	3460	4407	3460	3868
50°	3679	4025	3679	3652
55°	3465	3613	3465	3527
60°	3577	3068	3577	3230
65°	3248	2536	3248	2835
70°	2254	2021	2254	2377
75°	1984	1494	1984	1789
80°	1611	988	1611	1076
85°	943	524	943	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5300 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	2.3
10°-20°	493.4	6.5
20°-30°	762.6	10.0
30°-40°	910.4	11.9
40°-50°	915.8	12.0
50°-60°	796.8	10.5
60°-70°	565.0	7.4
70°-80°	298.9	3.9
80°-90°	76.0	1.0
90°-100°	197.5	2.6
100°-110°	519.3	6.8
110°-120°	538.5	7.1
120°-130°	431.9	5.7
130°-140°	338.9	4.4
140°-150°	260.1	3.4
150°-160°	187.3	2.5
160°-170°	114.6	1.5
170°-180°	38.7	0.5
0°-30°	1429.7	18.8
0°-40°	2340.2	30.7
0°-60°	4052.8	53.2
0°-90°	4992.6	65.5
90°-120°	1255.4	16.5
90°-150°	2286.3	30.0
90°-180°	2627.0	34.5
0°-180°	7619.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1925	1925	1925	1925	1925	
5°	1934	1994	1934	1568	1934	183
15°	1847	1976	1847	1650	1847	520
25°	1626	1843	1626	1614	1626	747
35°	1236	1644	1236	1404	1236	765
45°	798	1355	798	1189	798	639
55°	650	1000	650	976	650	597
65°	452	603	452	674	452	432
75°	171	286	171	342	171	180
85°	29	73	29	62	29	39
90°	3	10	3	10	3	3
95°	26	119	26	119	26	29
105°	94	813	94	813	94	99
115°	166	1047	166	1047	166	164
125°	231	834	231	834	231	205
135°	276	647	276	647	276	213
145°	320	525	320	525	320	200
155°	361	452	361	452	361	166
165°	390	421	390	421	390	110
175°	405	408	405	408	405	38
180°	405	405	405	405	405	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1941.3	1941.3	1952.3	1955.9	1955.9	1950.4	1945.0	1950.4	1966.8	1972.3	1970.4
5°	1934.1	1948.6	1968.6	1972.3	1976.0	1974.2	1970.4	1974.2	1992.3	1996.0	1997.8
7.5°	1919.5	1946.8	1972.3	1977.8	1983.2	1977.8	1976.0	1979.6	1997.8	2001.4	2001.4
10°	1901.3	1939.5	1968.6	1972.3	1977.8	1972.3	1972.3	1979.6	1997.8	2001.4	2003.3
12.5°	1875.8	1928.6	1955.9	1959.6	1966.8	1965.0	1963.2	1970.4	1988.7	1992.3	1992.3
15°	1846.6	1908.5	1934.1	1937.7	1950.4	1946.8	1946.8	1954.1	1974.2	1979.6	1977.8
17.5°	1806.6	1883.1	1912.2	1917.7	1926.8	1924.9	1926.8	1934.1	1952.3	1955.9	1957.8
20°	1761.1	1848.4	1883.1	1888.5	1897.7	1897.7	1897.7	1906.7	1924.9	1932.2	1932.2
22.5°	1699.2	1812.0	1848.4	1852.1	1863.0	1863.0	1866.7	1879.4	1895.8	1897.7	1897.7
25°	1626.3	1771.9	1802.9	1813.9	1824.8	1830.2	1835.8	1843.0	1848.4	1846.6	1848.4
27.5°	1549.8	1721.0	1761.1	1768.3	1782.9	1788.3	1795.7	1797.5	1799.3	1804.7	1801.1
30°	1464.2	1649.9	1710.0	1717.4	1741.0	1744.7	1737.4	1741.0	1750.1	1753.7	1757.4
32.5°	1367.7	1544.3	1657.3	1673.6	1695.5	1684.6	1682.7	1688.2	1702.8	1702.8	1706.4
35°	1236.5	1462.4	1608.1	1622.7	1639.1	1626.3	1633.5	1635.4	1644.5	1649.9	1648.1
37.5°	1092.7	1391.3	1557.1	1568.0	1580.8	1564.4	1575.3	1580.8	1588.0	1584.4	1584.4
40°	965.2	1280.3	1497.0	1504.3	1515.1	1502.5	1513.3	1517.0	1520.7	1517.0	1515.1
42.5°	870.5	1158.2	1433.2	1442.4	1435.0	1444.2	1447.8	1455.1	1449.6	1442.4	1442.4
45°	797.6	1125.5	1364.1	1374.9	1364.1	1378.7	1384.1	1384.1	1367.7	1364.1	1362.2
47.5°	774.0	1059.9	1294.8	1294.8	1289.4	1307.6	1316.6	1304.0	1287.6	1282.1	1282.1
50°	772.2	987.1	1200.2	1192.8	1218.3	1240.2	1231.1	1218.3	1205.6	1185.6	1185.6
52.5°	701.1	897.8	1078.1	1105.5	1145.5	1158.2	1143.7	1130.9	1109.1	1100.0	1092.7
55°	650.2	805.0	967.0	1021.7	1063.6	1079.9	1052.6	1039.8	1007.1	1001.7	998.0
57.5°	639.2	670.2	865.1	934.2	985.3	983.5	967.0	943.4	916.0	910.6	908.8
60°	586.5	484.4	755.8	837.7	890.5	885.1	870.5	848.7	823.2	819.5	815.9
62.5°	531.8	351.5	631.9	724.9	799.4	797.6	785.0	752.1	733.9	724.9	717.5
65°	451.7	295.0	449.9	602.8	710.3	713.9	686.6	662.9	642.8	631.9	630.1
67.5°	344.2	240.4	304.1	502.6	624.7	621.0	586.5	575.5	550.0	544.5	533.6
70°	255.0	160.3	211.3	408.0	540.9	531.8	504.4	491.7	468.1	455.3	448.0
72.5°	211.3	129.3	154.8	316.9	455.3	444.3	420.7	406.1	386.1	375.2	367.9
75°	171.2	136.6	118.4	234.9	369.7	362.4	340.5	325.9	309.6	295.0	296.8
77.5°	125.6	127.4	94.7	173.0	293.2	282.3	269.6	251.4	244.0	229.5	229.5
80°	94.7	100.2	71.1	118.4	211.3	211.3	200.3	187.5	174.8	167.5	167.5
82.5°	63.7	63.7	52.8	74.7	143.8	138.4	131.2	127.4	120.2	116.6	116.6
85°	29.1	36.4	32.8	45.5	78.3	81.9	81.9	78.3	76.5	72.9	74.7
87.5°	9.1	16.4	20.0	25.5	40.1	41.9	43.7	43.7	43.7	45.5	45.5
90°	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.8	10.3	10.3
92.5°	10.9	29.3	47.9	52.5	73.8	102.2	116.4	102.0	73.2	51.7	49.6
95°	26.1	59.9	93.8	102.3	181.6	287.4	340.3	303.6	230.4	175.4	169.2
97.5°	45.2	75.0	104.9	112.3	244.6	421.0	509.2	486.0	439.7	405.0	393.1
100°	59.8	86.9	114.0	120.7	267.6	463.3	561.1	562.8	566.2	568.7	554.6
102.5°	72.3	97.6	122.8	129.2	278.1	476.6	575.8	605.3	664.2	708.5	696.3
105°	93.6	115.0	136.3	141.7	285.8	478.0	574.1	640.2	772.5	871.7	865.2
107.5°	115.3	135.2	155.2	160.2	287.3	456.7	541.5	633.7	818.2	956.6	958.1
110°	130.0	148.0	166.0	170.5	285.1	437.9	514.3	617.4	823.6	978.3	985.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	144.5	161.6	178.8	183.0	285.2	421.4	489.6	595.1	806.1	964.4	974.9
115°	166.2	182.0	197.9	201.9	287.8	402.5	459.9	561.6	764.9	917.4	931.8
117.5°	187.6	202.0	216.4	220.0	293.2	390.8	439.5	531.3	714.8	852.4	868.4
120°	200.1	213.7	227.3	230.6	297.5	386.7	431.3	515.1	682.9	808.6	824.1
122.5°	212.4	226.1	239.7	243.1	303.8	384.6	425.1	500.6	651.5	764.8	780.1
125°	231.2	243.7	256.2	259.2	312.3	383.0	418.3	482.4	610.6	706.8	721.0
127.5°	246.4	259.0	271.5	274.7	320.7	382.0	412.6	467.6	577.8	660.3	672.3
130°	254.5	268.1	281.7	285.0	326.9	382.5	410.4	459.5	557.5	631.0	642.0
132.5°	263.0	276.5	290.1	293.5	331.8	383.0	408.5	452.4	540.2	606.0	615.9
135°	275.5	287.8	300.2	303.2	337.3	382.6	405.2	442.0	515.5	570.6	579.1
137.5°	288.3	300.5	312.6	315.7	345.4	385.0	404.7	435.7	497.8	544.5	551.4
140°	298.9	310.1	321.4	324.2	350.4	385.3	402.8	429.6	483.3	523.5	530.1
142.5°	307.0	317.4	327.8	330.5	354.6	386.7	402.8	426.3	473.5	508.9	514.5
145°	319.6	328.7	337.7	340.0	360.0	386.7	400.1	419.4	457.9	486.8	491.0
147.5°	332.1	340.9	349.8	351.9	367.9	389.4	400.1	415.3	445.6	468.3	471.9
150°	340.3	348.2	356.2	358.2	372.1	390.8	400.1	412.9	438.6	457.7	460.5
152.5°	348.7	354.7	360.7	362.2	374.8	391.7	400.1	411.0	432.9	449.3	451.5
155°	361.2	365.6	370.1	371.2	380.8	393.7	400.1	408.8	426.2	439.3	440.7
157.5°	370.4	374.7	379.2	380.3	386.9	395.6	400.1	406.9	420.4	430.5	431.5
160°	376.7	380.1	383.5	384.3	389.6	396.6	400.1	405.9	417.5	426.1	426.7
162.5°	383.0	385.5	388.0	388.7	392.5	397.5	400.1	405.0	414.7	422.1	422.6
165°	389.8	392.0	394.4	394.9	396.6	398.9	400.1	403.6	410.6	415.8	416.4
167.5°	396.0	397.1	398.2	398.5	399.9	401.8	402.8	405.1	409.7	413.1	413.4
170°	400.1	401.2	402.3	402.5	402.6	402.7	402.8	405.1	409.7	413.1	413.1
172.5°	402.3	402.5	402.7	402.8	402.8	402.8	402.8	404.6	408.2	410.9	410.8
175°	405.2	405.2	405.2	405.2	404.4	403.3	402.8	404.0	406.2	408.0	408.0
177.5°	405.2	405.2	405.2	405.2	404.6	403.8	403.3	404.2	406.1	407.4	407.1
180°	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1974.2	1968.6	1974.2	1970.4	1972.3	1966.8	1950.4	1945.0	1950.4	1955.9	1955.9
5°	1997.8	1994.2	1997.8	1997.8	1996.0	1992.3	1974.2	1970.4	1974.2	1976.0	1972.3
7.5°	2005.1	1999.6	2005.1	2001.4	2001.4	1997.8	1979.6	1976.0	1977.8	1983.2	1977.8
10°	2005.1	1999.6	2005.1	2003.3	2001.4	1997.8	1979.6	1972.3	1972.3	1977.8	1972.3
12.5°	1996.0	1992.3	1996.0	1992.3	1992.3	1988.7	1970.4	1963.2	1965.0	1966.8	1959.6
15°	1981.4	1976.0	1981.4	1977.8	1979.6	1974.2	1954.1	1946.8	1946.8	1950.4	1937.7
17.5°	1959.6	1952.3	1959.6	1957.8	1955.9	1952.3	1934.1	1926.8	1924.9	1926.8	1917.7
20°	1934.1	1928.6	1934.1	1932.2	1932.2	1924.9	1906.7	1897.7	1897.7	1897.7	1888.5
22.5°	1894.0	1888.5	1894.0	1897.7	1897.7	1895.8	1879.4	1866.7	1863.0	1863.0	1852.1
25°	1848.4	1843.0	1848.4	1848.4	1846.6	1848.4	1843.0	1835.8	1830.2	1824.8	1813.9
27.5°	1804.7	1801.1	1804.7	1801.1	1804.7	1799.3	1797.5	1795.7	1788.3	1782.9	1768.3
30°	1761.1	1757.4	1761.1	1757.4	1753.7	1750.1	1741.0	1737.4	1744.7	1741.0	1717.4
32.5°	1706.4	1702.8	1706.4	1706.4	1702.8	1702.8	1688.2	1682.7	1684.6	1695.5	1673.6
35°	1649.9	1644.5	1649.9	1648.1	1649.9	1644.5	1635.4	1633.5	1626.3	1639.1	1622.7
37.5°	1584.4	1579.0	1584.4	1584.4	1584.4	1588.0	1580.8	1575.3	1564.4	1580.8	1568.0
40°	1517.0	1509.7	1517.0	1515.1	1517.0	1520.7	1517.0	1513.3	1502.5	1515.1	1504.3
42.5°	1440.6	1438.7	1440.6	1442.4	1442.4	1449.6	1455.1	1447.8	1444.2	1435.0	1442.4
45°	1358.6	1354.9	1358.6	1362.2	1364.1	1367.7	1384.1	1384.1	1378.7	1364.1	1374.9
47.5°	1271.1	1262.1	1271.1	1282.1	1282.1	1287.6	1304.0	1316.6	1307.6	1289.4	1294.8
50°	1178.2	1180.1	1178.2	1185.6	1185.6	1205.6	1218.3	1231.1	1240.2	1218.3	1192.8
52.5°	1087.2	1085.4	1087.2	1092.7	1100.0	1109.1	1130.9	1143.7	1158.2	1145.5	1105.5
55°	996.1	999.8	996.1	998.0	1001.7	1007.1	1039.8	1052.6	1079.9	1063.6	1021.7
57.5°	905.1	899.6	905.1	908.8	910.6	916.0	943.4	967.0	983.5	985.3	934.2
60°	799.4	792.2	799.4	815.9	819.5	823.2	848.7	870.5	885.1	890.5	837.7
62.5°	706.6	693.9	706.6	717.5	724.9	733.9	752.1	785.0	797.6	799.4	724.9
65°	608.3	602.8	608.3	630.1	631.9	642.8	662.9	686.6	713.9	710.3	602.8
67.5°	519.0	519.0	519.0	533.6	544.5	550.0	575.5	586.5	621.0	624.7	502.6
70°	437.1	435.3	437.1	448.0	455.3	468.1	491.7	504.4	531.8	540.9	408.0
72.5°	358.8	356.9	358.8	367.9	375.2	386.1	406.1	420.7	444.3	455.3	316.9
75°	289.6	285.9	289.6	296.8	295.0	309.6	325.9	340.5	362.4	369.7	234.9
77.5°	222.2	222.2	222.2	229.5	229.5	244.0	251.4	269.6	282.3	293.2	173.0
80°	165.7	163.9	165.7	167.5	167.5	174.8	187.5	200.3	211.3	211.3	118.4
82.5°	116.6	112.9	116.6	116.6	116.6	120.2	127.4	131.2	138.4	143.8	74.7
85°	72.9	72.9	72.9	74.7	72.9	76.5	78.3	81.9	81.9	78.3	45.5
87.5°	47.3	45.5	47.3	45.5	45.5	43.7	43.7	43.7	41.9	40.1	25.5
90°	10.3	10.3	10.3	10.3	10.3	13.8	18.4	20.6	17.7	11.9	7.6
92.5°	41.5	33.2	41.5	49.6	51.7	73.2	102.0	116.4	102.2	73.8	52.5
95°	144.3	119.4	144.3	169.2	175.4	230.4	303.6	340.3	287.4	181.6	102.3
97.5°	345.8	298.3	345.8	393.1	405.0	439.7	486.0	509.2	421.0	244.6	112.3
100°	498.2	441.7	498.2	554.6	568.7	566.2	562.8	561.1	463.3	267.6	120.7
102.5°	648.0	599.7	648.0	696.3	708.5	664.2	605.3	575.8	476.6	278.1	129.2
105°	839.2	813.2	839.2	865.2	871.7	772.5	640.2	574.1	478.0	285.8	141.7
107.5°	964.4	970.7	964.4	958.1	956.6	818.2	633.7	541.5	456.7	287.3	160.2
110°	1012.2	1039.2	1012.2	985.1	978.3	823.6	617.4	514.3	437.9	285.1	170.5



TEST NUMBER: P933855

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1016.4	1058.0	1016.4	974.9	964.4	806.1	595.1	489.6	421.4	285.2	183.0
115°	989.4	1047.1	989.4	931.8	917.4	764.9	561.6	459.9	402.5	287.8	201.9
117.5°	932.3	996.2	932.3	868.4	852.4	714.8	531.3	439.5	390.8	293.2	220.0
120°	886.2	948.3	886.2	824.1	808.6	682.9	515.1	431.3	386.7	297.5	230.6
122.5°	841.4	902.7	841.4	780.1	764.8	651.5	500.6	425.1	384.6	303.8	243.1
125°	777.4	833.8	777.4	721.0	706.8	610.6	482.4	418.3	383.0	312.3	259.2
127.5°	719.9	767.5	719.9	672.3	660.3	577.8	467.6	412.6	382.0	320.7	274.7
130°	686.0	730.0	686.0	642.0	631.0	557.5	459.5	410.4	382.5	326.9	285.0
132.5°	655.2	694.6	655.2	615.9	606.0	540.2	452.4	408.5	383.0	331.8	293.5
135°	613.1	647.0	613.1	579.1	570.6	515.5	442.0	405.2	382.6	337.3	303.2
137.5°	579.2	607.1	579.2	551.4	544.5	497.8	435.7	404.7	385.0	345.4	315.7
140°	556.0	582.0	556.0	530.1	523.5	483.3	429.6	402.8	385.3	350.4	324.2
142.5°	536.9	559.2	536.9	514.5	508.9	473.5	426.3	402.8	386.7	354.6	330.5
145°	508.0	524.9	508.0	491.0	486.8	457.9	419.4	400.1	386.7	360.0	340.0
147.5°	485.9	499.9	485.9	471.9	468.3	445.6	415.3	400.1	389.4	367.9	351.9
150°	472.0	483.3	472.0	460.5	457.7	438.6	412.9	400.1	390.8	372.1	358.2
152.5°	460.0	468.6	460.0	451.5	449.3	432.9	411.0	400.1	391.7	374.8	362.2
155°	446.3	452.0	446.3	440.7	439.3	426.2	408.8	400.1	393.7	380.8	371.2
157.5°	435.6	439.5	435.6	431.5	430.5	420.4	406.9	400.1	395.6	386.9	380.3
160°	429.0	431.3	429.0	426.7	426.1	417.5	405.9	400.1	396.6	389.6	384.3
162.5°	424.8	427.0	424.8	422.6	422.1	414.7	405.0	400.1	397.5	392.5	388.7
165°	418.7	421.0	418.7	416.4	415.8	410.6	403.6	400.1	398.9	396.6	394.9
167.5°	414.3	415.3	414.3	413.4	413.1	409.7	405.1	402.8	401.8	399.9	398.5
170°	413.1	413.1	413.1	413.1	413.1	409.7	405.1	402.8	402.7	402.6	402.5
172.5°	409.9	409.0	409.9	410.8	410.9	408.2	404.6	402.8	402.8	402.8	402.8
175°	408.0	408.0	408.0	408.0	408.0	406.2	404.0	402.8	403.3	404.4	405.2
177.5°	406.2	405.2	406.2	407.1	407.4	406.1	404.2	403.3	403.8	404.6	405.2
180°	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2



TEST NUMBER: P933855

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1952.3	1941.3	1941.3	1923.1	1915.9	1910.3	1901.3	1874.0	1866.7	1859.4	1870.3
5°	1968.6	1948.6	1934.1	1901.3	1874.0	1863.0	1828.4	1762.9	1719.2	1686.4	1668.2
7.5°	1972.3	1946.8	1919.5	1868.5	1802.9	1773.8	1668.2	1548.0	1515.1	1486.1	1467.8
10°	1968.6	1939.5	1901.3	1824.8	1670.0	1619.0	1513.3	1435.0	1415.0	1409.6	1415.0
12.5°	1955.9	1928.6	1875.8	1748.3	1531.6	1497.0	1435.0	1389.5	1385.9	1395.0	1444.2
15°	1934.1	1908.5	1846.6	1646.3	1455.1	1429.6	1385.9	1369.5	1389.5	1453.2	1600.8
17.5°	1912.2	1883.1	1806.6	1546.2	1396.8	1378.7	1347.6	1380.5	1493.3	1579.0	1628.1
20°	1883.1	1848.4	1761.1	1473.3	1354.9	1338.6	1324.0	1471.5	1557.1	1588.0	1615.4
22.5°	1848.4	1812.0	1699.2	1422.3	1311.2	1298.5	1307.6	1522.5	1557.1	1579.0	1602.6
25°	1802.9	1771.9	1626.3	1382.3	1276.6	1262.1	1296.6	1517.0	1537.1	1542.5	1589.8
27.5°	1761.1	1721.0	1549.8	1345.8	1234.7	1229.3	1305.8	1493.3	1507.9	1513.3	1564.4
30°	1710.0	1649.9	1464.2	1307.6	1191.0	1189.2	1307.6	1464.2	1460.6	1475.1	1526.1
32.5°	1657.3	1544.3	1367.7	1260.3	1149.1	1147.3	1294.8	1420.5	1416.8	1436.9	1475.1
35°	1608.1	1462.4	1236.5	1205.6	1096.3	1098.1	1263.9	1369.5	1371.3	1389.5	1413.2
37.5°	1557.1	1391.3	1092.7	1145.5	1045.4	1045.4	1222.0	1322.2	1318.5	1324.0	1356.7
40°	1497.0	1280.3	965.2	1067.2	998.0	992.5	1171.0	1271.1	1258.4	1256.6	1302.1
42.5°	1433.2	1158.2	870.5	963.4	943.4	936.0	1109.1	1209.2	1185.6	1191.0	1249.3
45°	1364.1	1125.5	797.6	814.0	886.9	881.4	1041.7	1138.2	1121.9	1136.4	1196.5
47.5°	1294.8	1059.9	774.0	675.6	826.8	825.0	967.0	1069.0	1059.9	1074.5	1138.2
50°	1200.2	987.1	772.2	579.1	759.4	766.7	877.8	1001.7	1001.7	1014.4	1081.8
52.5°	1078.1	897.8	701.1	524.5	681.1	702.9	799.4	943.4	947.0	959.7	1019.8
55°	967.0	805.0	650.2	482.6	588.3	635.6	723.0	883.3	890.5	903.3	957.9
57.5°	865.1	670.2	639.2	433.4	502.6	548.2	655.6	825.0	828.6	839.5	892.4
60°	755.8	484.4	586.5	380.6	428.0	462.5	593.7	755.8	768.5	775.8	821.3
62.5°	631.9	351.5	531.8	344.2	391.6	398.8	542.7	690.2	706.6	712.1	739.4
65°	449.9	295.0	451.7	313.3	353.3	355.1	488.1	622.8	637.4	646.5	666.6
67.5°	304.1	240.4	344.2	284.1	324.1	325.9	435.3	544.5	564.5	571.9	584.6
70°	211.3	160.3	255.0	253.2	291.4	295.0	378.8	473.5	491.7	497.2	504.4
72.5°	154.8	129.3	211.3	227.6	256.8	260.4	320.5	393.4	411.6	417.0	420.7
75°	118.4	136.6	171.2	198.5	218.5	220.3	262.2	320.5	333.3	336.9	338.7
77.5°	94.7	127.4	125.6	160.3	178.5	174.8	205.8	247.7	258.6	258.6	258.6
80°	71.1	100.2	94.7	114.8	131.2	127.4	147.5	176.7	180.3	183.9	182.1
82.5°	52.8	63.7	63.7	72.9	87.4	83.8	98.3	114.8	114.8	114.8	118.4
85°	32.8	36.4	29.1	38.3	49.2	47.3	54.7	61.9	63.7	63.7	60.1
87.5°	20.0	16.4	9.1	14.6	21.8	21.8	25.5	27.3	25.5	25.5	25.5
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.8
92.5°	47.9	29.3	10.9	29.3	47.9	52.5	73.8	102.2	116.4	102.0	73.2
95°	93.8	59.9	26.1	59.9	93.8	102.3	181.6	287.4	340.3	303.6	230.4
97.5°	104.9	75.0	45.2	75.0	104.9	112.3	244.6	421.0	509.2	486.0	439.7
100°	114.0	86.9	59.8	86.9	114.0	120.7	267.6	463.3	561.1	562.8	566.2
102.5°	122.8	97.6	72.3	97.6	122.8	129.2	278.1	476.6	575.8	605.3	664.2
105°	136.3	115.0	93.6	115.0	136.3	141.7	285.8	478.0	574.1	640.2	772.5
107.5°	155.2	135.2	115.3	135.2	155.2	160.2	287.3	456.7	541.5	633.7	818.2
110°	166.0	148.0	130.0	148.0	166.0	170.5	285.1	437.9	514.3	617.4	823.6



TEST NUMBER: P933855

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	178.8	161.6	144.5	161.6	178.8	183.0	285.2	421.4	489.6	595.1	806.1
115°	197.9	182.0	166.2	182.0	197.9	201.9	287.8	402.5	459.9	561.6	764.9
117.5°	216.4	202.0	187.6	202.0	216.4	220.0	293.2	390.8	439.5	531.3	714.8
120°	227.3	213.7	200.1	213.7	227.3	230.6	297.5	386.7	431.3	515.1	682.9
122.5°	239.7	226.1	212.4	226.1	239.7	243.1	303.8	384.6	425.1	500.6	651.5
125°	256.2	243.7	231.2	243.7	256.2	259.2	312.3	383.0	418.3	482.4	610.6
127.5°	271.5	259.0	246.4	259.0	271.5	274.7	320.7	382.0	412.6	467.6	577.8
130°	281.7	268.1	254.5	268.1	281.7	285.0	326.9	382.5	410.4	459.5	557.5
132.5°	290.1	276.5	263.0	276.5	290.1	293.5	331.8	383.0	408.5	452.4	540.2
135°	300.2	287.8	275.5	287.8	300.2	303.2	337.3	382.6	405.2	442.0	515.5
137.5°	312.6	300.5	288.3	300.5	312.6	315.7	345.4	385.0	404.7	435.7	497.8
140°	321.4	310.1	298.9	310.1	321.4	324.2	350.4	385.3	402.8	429.6	483.3
142.5°	327.8	317.4	307.0	317.4	327.8	330.5	354.6	386.7	402.8	426.3	473.5
145°	337.7	328.7	319.6	328.7	337.7	340.0	360.0	386.7	400.1	419.4	457.9
147.5°	349.8	340.9	332.1	340.9	349.8	351.9	367.9	389.4	400.1	415.3	445.6
150°	356.2	348.2	340.3	348.2	356.2	358.2	372.1	390.8	400.1	412.9	438.6
152.5°	360.7	354.7	348.7	354.7	360.7	362.2	374.8	391.7	400.1	411.0	432.9
155°	370.1	365.6	361.2	365.6	370.1	371.2	380.8	393.7	400.1	408.8	426.2
157.5°	379.2	374.7	370.4	374.7	379.2	380.3	386.9	395.6	400.1	406.9	420.4
160°	383.5	380.1	376.7	380.1	383.5	384.3	389.6	396.6	400.1	405.9	417.5
162.5°	388.0	385.5	383.0	385.5	388.0	388.7	392.5	397.5	400.1	405.0	414.7
165°	394.4	392.0	389.8	392.0	394.4	394.9	396.6	398.9	400.1	403.6	410.6
167.5°	398.2	397.1	396.0	397.1	398.2	398.5	399.9	401.8	402.8	405.1	409.7
170°	402.3	401.2	400.1	401.2	402.3	402.5	402.6	402.7	402.8	405.1	409.7
172.5°	402.7	402.5	402.3	402.5	402.7	402.8	402.8	402.8	402.8	404.6	408.2
175°	405.2	405.2	405.2	405.2	405.2	405.2	404.4	403.3	402.8	404.0	406.2
177.5°	405.2	405.2	405.2	405.2	405.2	405.2	404.6	403.8	403.3	404.2	406.1
180°	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2



TEST NUMBER: P933855
 CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1857.6	1852.1	1859.4	1839.4	1859.4	1852.1	1857.6	1870.3	1859.4	1866.7	1874.0
5°	1629.9	1620.8	1591.7	1568.0	1591.7	1620.8	1629.9	1668.2	1686.4	1719.2	1762.9
7.5°	1456.9	1449.6	1442.4	1427.8	1442.4	1449.6	1456.9	1467.8	1486.1	1515.1	1548.0
10°	1418.7	1420.5	1431.4	1429.6	1431.4	1420.5	1418.7	1415.0	1409.6	1415.0	1435.0
12.5°	1517.0	1533.4	1593.5	1589.8	1593.5	1533.4	1517.0	1444.2	1395.0	1385.9	1389.5
15°	1629.9	1635.4	1648.1	1649.9	1648.1	1635.4	1629.9	1600.8	1453.2	1389.5	1369.5
17.5°	1640.9	1642.7	1651.7	1651.7	1651.7	1642.7	1640.9	1628.1	1579.0	1493.3	1380.5
20°	1631.7	1635.4	1653.6	1657.3	1653.6	1635.4	1631.7	1615.4	1588.0	1557.1	1471.5
22.5°	1628.1	1635.4	1649.9	1648.1	1649.9	1635.4	1628.1	1602.6	1579.0	1557.1	1522.5
25°	1609.9	1609.9	1611.7	1613.5	1611.7	1609.9	1609.9	1589.8	1542.5	1537.1	1517.0
27.5°	1571.6	1575.3	1586.2	1584.4	1586.2	1575.3	1571.6	1564.4	1513.3	1507.9	1493.3
30°	1537.1	1533.4	1524.3	1517.0	1524.3	1533.4	1537.1	1526.1	1475.1	1460.6	1464.2
32.5°	1478.8	1469.6	1460.6	1455.1	1460.6	1469.6	1478.8	1475.1	1436.9	1416.8	1420.5
35°	1409.6	1411.4	1409.6	1404.1	1409.6	1411.4	1409.6	1413.2	1389.5	1371.3	1369.5
37.5°	1360.4	1364.1	1362.2	1354.9	1362.2	1364.1	1360.4	1356.7	1324.0	1318.5	1322.2
40°	1309.4	1311.2	1309.4	1304.0	1309.4	1311.2	1309.4	1302.1	1256.6	1258.4	1271.1
42.5°	1260.3	1258.4	1252.9	1249.3	1252.9	1258.4	1260.3	1249.3	1191.0	1185.6	1209.2
45°	1203.8	1205.6	1194.6	1189.2	1194.6	1205.6	1203.8	1196.5	1136.4	1121.9	1138.2
47.5°	1147.3	1147.3	1138.2	1132.7	1138.2	1147.3	1147.3	1138.2	1074.5	1059.9	1069.0
50°	1087.2	1085.4	1072.6	1070.8	1072.6	1085.4	1087.2	1081.8	1014.4	1001.7	1001.7
52.5°	1018.0	1018.0	1019.8	1023.5	1019.8	1018.0	1018.0	1019.8	959.7	947.0	943.4
55°	957.9	959.7	972.5	976.1	972.5	959.7	957.9	957.9	903.3	890.5	883.3
57.5°	896.0	896.0	905.1	905.1	905.1	896.0	896.0	892.4	839.5	828.6	825.0
60°	825.0	828.6	835.9	834.1	835.9	828.6	825.0	821.3	775.8	768.5	755.8
62.5°	750.3	754.0	755.8	752.1	755.8	754.0	750.3	739.4	712.1	706.6	690.2
65°	672.0	675.6	677.4	673.8	677.4	675.6	672.0	666.6	646.5	637.4	622.8
67.5°	591.9	590.1	588.3	595.5	588.3	590.1	591.9	584.6	571.9	564.5	544.5
70°	509.9	509.9	508.1	511.8	508.1	509.9	509.9	504.4	497.2	491.7	473.5
72.5°	422.5	420.7	428.0	422.5	428.0	420.7	422.5	420.7	417.0	411.6	393.4
75°	336.9	340.5	336.9	342.3	336.9	340.5	336.9	338.7	336.9	333.3	320.5
77.5°	256.8	260.4	256.8	256.8	256.8	260.4	256.8	258.6	258.6	258.6	247.7
80°	182.1	180.3	180.3	178.5	180.3	180.3	182.1	182.1	183.9	180.3	176.7
82.5°	116.6	114.8	114.8	118.4	114.8	114.8	116.6	118.4	114.8	114.8	114.8
85°	63.7	65.5	61.9	61.9	61.9	65.5	63.7	60.1	63.7	63.7	61.9
87.5°	23.7	21.8	21.8	21.8	21.8	21.8	23.7	25.5	25.5	25.5	27.3
90°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.8	18.4	20.6	17.7
92.5°	51.7	49.6	41.5	33.2	41.5	49.6	51.7	73.2	102.0	116.4	102.2
95°	175.4	169.2	144.3	119.4	144.3	169.2	175.4	230.4	303.6	340.3	287.4
97.5°	405.0	393.1	345.8	298.3	345.8	393.1	405.0	439.7	486.0	509.2	421.0
100°	568.7	554.6	498.2	441.7	498.2	554.6	568.7	566.2	562.8	561.1	463.3
102.5°	708.5	696.3	648.0	599.7	648.0	696.3	708.5	664.2	605.3	575.8	476.6
105°	871.7	865.2	839.2	813.2	839.2	865.2	871.7	772.5	640.2	574.1	478.0
107.5°	956.6	958.1	964.4	970.7	964.4	958.1	956.6	818.2	633.7	541.5	456.7
110°	978.3	985.1	1012.2	1039.2	1012.2	985.1	978.3	823.6	617.4	514.3	437.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	964.4	974.9	1016.4	1058.0	1016.4	974.9	964.4	806.1	595.1	489.6	421.4
115°	917.4	931.8	989.4	1047.1	989.4	931.8	917.4	764.9	561.6	459.9	402.5
117.5°	852.4	868.4	932.3	996.2	932.3	868.4	852.4	714.8	531.3	439.5	390.8
120°	808.6	824.1	886.2	948.3	886.2	824.1	808.6	682.9	515.1	431.3	386.7
122.5°	764.8	780.1	841.4	902.7	841.4	780.1	764.8	651.5	500.6	425.1	384.6
125°	706.8	721.0	777.4	833.8	777.4	721.0	706.8	610.6	482.4	418.3	383.0
127.5°	660.3	672.3	719.9	767.5	719.9	672.3	660.3	577.8	467.6	412.6	382.0
130°	631.0	642.0	686.0	730.0	686.0	642.0	631.0	557.5	459.5	410.4	382.5
132.5°	606.0	615.9	655.2	694.6	655.2	615.9	606.0	540.2	452.4	408.5	383.0
135°	570.6	579.1	613.1	647.0	613.1	579.1	570.6	515.5	442.0	405.2	382.6
137.5°	544.5	551.4	579.2	607.1	579.2	551.4	544.5	497.8	435.7	404.7	385.0
140°	523.5	530.1	556.0	582.0	556.0	530.1	523.5	483.3	429.6	402.8	385.3
142.5°	508.9	514.5	536.9	559.2	536.9	514.5	508.9	473.5	426.3	402.8	386.7
145°	486.8	491.0	508.0	524.9	508.0	491.0	486.8	457.9	419.4	400.1	386.7
147.5°	468.3	471.9	485.9	499.9	485.9	471.9	468.3	445.6	415.3	400.1	389.4
150°	457.7	460.5	472.0	483.3	472.0	460.5	457.7	438.6	412.9	400.1	390.8
152.5°	449.3	451.5	460.0	468.6	460.0	451.5	449.3	432.9	411.0	400.1	391.7
155°	439.3	440.7	446.3	452.0	446.3	440.7	439.3	426.2	408.8	400.1	393.7
157.5°	430.5	431.5	435.6	439.5	435.6	431.5	430.5	420.4	406.9	400.1	395.6
160°	426.1	426.7	429.0	431.3	429.0	426.7	426.1	417.5	405.9	400.1	396.6
162.5°	422.1	422.6	424.8	427.0	424.8	422.6	422.1	414.7	405.0	400.1	397.5
165°	415.8	416.4	418.7	421.0	418.7	416.4	415.8	410.6	403.6	400.1	398.9
167.5°	413.1	413.4	414.3	415.3	414.3	413.4	413.1	409.7	405.1	402.8	401.8
170°	413.1	413.1	413.1	413.1	413.1	413.1	413.1	409.7	405.1	402.8	402.7
172.5°	410.9	410.8	409.9	409.0	409.9	410.8	410.9	408.2	404.6	402.8	402.8
175°	408.0	408.0	408.0	408.0	408.0	408.0	408.0	406.2	404.0	402.8	403.3
177.5°	407.4	407.1	406.2	405.2	406.2	407.1	407.4	406.1	404.2	403.3	403.8
180°	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2	405.2



TEST NUMBER: P933855

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1901.3	1910.3	1915.9	1923.1	1941.3
5°	1828.4	1863.0	1874.0	1901.3	1934.1
7.5°	1668.2	1773.8	1802.9	1868.5	1919.5
10°	1513.3	1619.0	1670.0	1824.8	1901.3
12.5°	1435.0	1497.0	1531.6	1748.3	1875.8
15°	1385.9	1429.6	1455.1	1646.3	1846.6
17.5°	1347.6	1378.7	1396.8	1546.2	1806.6
20°	1324.0	1338.6	1354.9	1473.3	1761.1
22.5°	1307.6	1298.5	1311.2	1422.3	1699.2
25°	1296.6	1262.1	1276.6	1382.3	1626.3
27.5°	1305.8	1229.3	1234.7	1345.8	1549.8
30°	1307.6	1189.2	1191.0	1307.6	1464.2
32.5°	1294.8	1147.3	1149.1	1260.3	1367.7
35°	1263.9	1098.1	1096.3	1205.6	1236.5
37.5°	1222.0	1045.4	1045.4	1145.5	1092.7
40°	1171.0	992.5	998.0	1067.2	965.2
42.5°	1109.1	936.0	943.4	963.4	870.5
45°	1041.7	881.4	886.9	814.0	797.6
47.5°	967.0	825.0	826.8	675.6	774.0
50°	877.8	766.7	759.4	579.1	772.2
52.5°	799.4	702.9	681.1	524.5	701.1
55°	723.0	635.6	588.3	482.6	650.2
57.5°	655.6	548.2	502.6	433.4	639.2
60°	593.7	462.5	428.0	380.6	586.5
62.5°	542.7	398.8	391.6	344.2	531.8
65°	488.1	355.1	353.3	313.3	451.7
67.5°	435.3	325.9	324.1	284.1	344.2
70°	378.8	295.0	291.4	253.2	255.0
72.5°	320.5	260.4	256.8	227.6	211.3
75°	262.2	220.3	218.5	198.5	171.2
77.5°	205.8	174.8	178.5	160.3	125.6
80°	147.5	127.4	131.2	114.8	94.7
82.5°	98.3	83.8	87.4	72.9	63.7
85°	54.7	47.3	49.2	38.3	29.1
87.5°	25.5	21.8	21.8	14.6	9.1
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.8	52.5	47.9	29.3	10.9
95°	181.6	102.3	93.8	59.9	26.1
97.5°	244.6	112.3	104.9	75.0	45.2
100°	267.6	120.7	114.0	86.9	59.8
102.5°	278.1	129.2	122.8	97.6	72.3
105°	285.8	141.7	136.3	115.0	93.6
107.5°	287.3	160.2	155.2	135.2	115.3
110°	285.1	170.5	166.0	148.0	130.0



TEST NUMBER: P933855

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	285.2	183.0	178.8	161.6	144.5
115°	287.8	201.9	197.9	182.0	166.2
117.5°	293.2	220.0	216.4	202.0	187.6
120°	297.5	230.6	227.3	213.7	200.1
122.5°	303.8	243.1	239.7	226.1	212.4
125°	312.3	259.2	256.2	243.7	231.2
127.5°	320.7	274.7	271.5	259.0	246.4
130°	326.9	285.0	281.7	268.1	254.5
132.5°	331.8	293.5	290.1	276.5	263.0
135°	337.3	303.2	300.2	287.8	275.5
137.5°	345.4	315.7	312.6	300.5	288.3
140°	350.4	324.2	321.4	310.1	298.9
142.5°	354.6	330.5	327.8	317.4	307.0
145°	360.0	340.0	337.7	328.7	319.6
147.5°	367.9	351.9	349.8	340.9	332.1
150°	372.1	358.2	356.2	348.2	340.3
152.5°	374.8	362.2	360.7	354.7	348.7
155°	380.8	371.2	370.1	365.6	361.2
157.5°	386.9	380.3	379.2	374.7	370.4
160°	389.6	384.3	383.5	380.1	376.7
162.5°	392.5	388.7	388.0	385.5	383.0
165°	396.6	394.9	394.4	392.0	389.8
167.5°	399.9	398.5	398.2	397.1	396.0
170°	402.6	402.5	402.3	401.2	400.1
172.5°	402.8	402.8	402.7	402.5	402.3
175°	404.4	405.2	405.2	405.2	405.2
177.5°	404.6	405.2	405.2	405.2	405.2
180°	405.2	405.2	405.2	405.2	405.2



TEST NUMBER: P933855
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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	12.33	13.35	13.14	14.19	15.22	15.18	16.20	15.99	17.04	18.07
	3H	12.82	13.74	13.65	14.58	15.64	16.55	17.46	17.37	18.31	19.37
	4H	13.02	13.88	13.86	14.74	15.80	17.00	17.87	17.84	18.72	19.79
	6H	13.15	13.94	14.00	14.80	15.89	17.30	18.10	18.16	18.96	20.04
	8H	13.15	13.91	14.01	14.79	15.87	17.38	18.14	18.25	19.02	20.10
	12H	13.13	13.85	14.00	14.72	15.83	17.43	18.15	18.30	19.03	20.14
4H	2H	13.39	14.25	14.23	15.10	16.17	15.61	16.48	16.46	17.33	18.40
	3H	14.43	15.15	15.29	16.04	17.12	17.14	17.86	18.00	18.74	19.83
	4H	14.71	15.37	15.58	16.25	17.36	17.68	18.33	18.55	19.21	20.33
	6H	14.85	15.41	15.73	16.32	17.43	18.06	18.62	18.94	19.53	20.64
	8H	14.86	15.39	15.75	16.29	17.41	18.17	18.70	19.06	19.60	20.73
	12H	14.83	15.31	15.74	16.23	17.36	18.24	18.72	19.15	19.63	20.77
8H	4H	15.18	15.71	16.07	16.61	17.74	17.81	18.34	18.70	19.24	20.37
	6H	15.45	15.89	16.37	16.83	17.96	18.26	18.70	19.18	19.64	20.77
	8H	15.50	15.88	16.42	16.82	17.96	18.42	18.81	19.35	19.74	20.89
	12H	15.49	15.83	16.42	16.76	17.95	18.53	18.87	19.46	19.80	20.99
12H	4H	15.20	15.67	16.11	16.59	17.73	17.79	18.26	18.69	19.18	20.32
	6H	15.51	15.90	16.44	16.84	17.98	18.26	18.65	19.19	19.58	20.73
	8H	15.59	15.93	16.52	16.86	18.05	18.43	18.78	19.36	19.70	20.90