

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: P933878

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933878
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-B2750-1D-UNV-STD-W-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

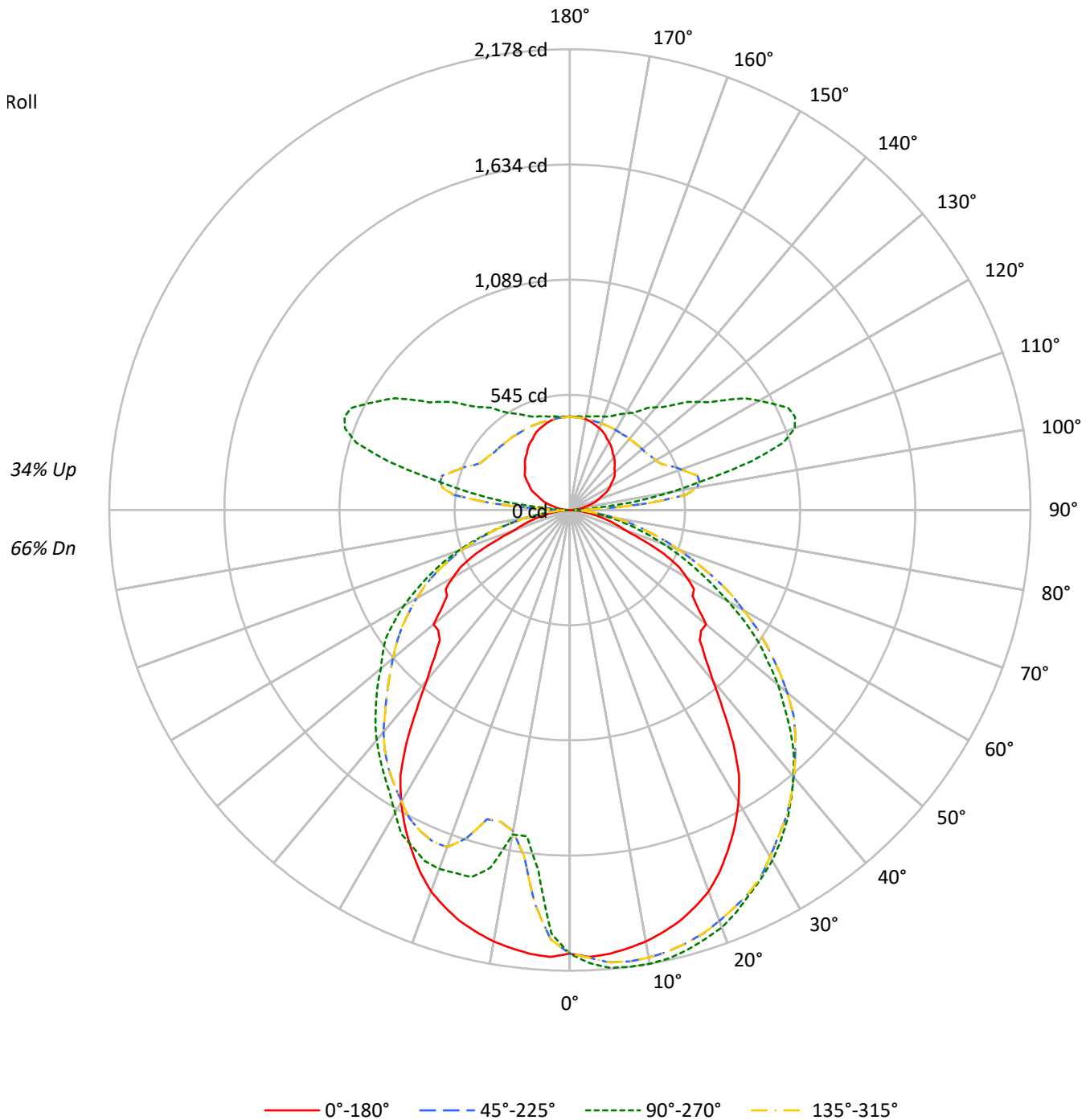
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8300.1 lumens
Efficiency: N/A
Efficacy: 125.8 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 (A_{in}): 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	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6486	6486	6486	6486
5°	6537	6547	6537	5148
10°	6495	6449	6495	4611
15°	6427	6309	6427	5269
20°	6295	6144	6295	5280
25°	6022	5903	6022	5167
30°	5669	5702	5669	4922
35°	5057	5449	5057	4652
40°	4216	5150	4216	4448
45°	3769	4801	3769	4214
50°	4008	4384	4008	3978
55°	3774	3935	3774	3842
60°	3895	3342	3895	3519
65°	3538	2763	3538	3088
70°	2456	2202	2456	2589
75°	2162	1628	2162	1949
80°	1754	1076	1754	1172
85°	1027	570	1027	484

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5774 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	2.3
10°-20°	537.4	6.5
20°-30°	830.7	10.0
30°-40°	991.7	11.9
40°-50°	997.6	12.0
50°-60°	868.0	10.5
60°-70°	615.4	7.4
70°-80°	325.6	3.9
80°-90°	82.8	1.0
90°-100°	215.2	2.6
100°-110°	565.7	6.8
110°-120°	586.6	7.1
120°-130°	470.5	5.7
130°-140°	369.2	4.4
140°-150°	283.4	3.4
150°-160°	204.1	2.5
160°-170°	124.9	1.5
170°-180°	42.2	0.5
0°-30°	1557.4	18.8
0°-40°	2549.2	30.7
0°-60°	4414.7	53.2
0°-90°	5438.5	65.5
90°-120°	1367.5	16.5
90°-150°	2490.5	30.0
90°-180°	2862.0	34.5
0°-180°	8300.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2097	2097	2097	2097	2097	
5°	2107	2172	2107	1708	2107	200
15°	2012	2152	2012	1797	2012	566
25°	1772	2008	1772	1758	1772	813
35°	1347	1791	1347	1530	1347	833
45°	869	1476	869	1295	869	696
55°	708	1089	708	1063	708	651
65°	492	657	492	734	492	470
75°	186	312	186	373	186	196
85°	32	79	32	67	32	43
90°	3	11	3	11	3	4
95°	28	130	28	130	28	32
105°	102	886	102	886	102	108
115°	181	1141	181	1141	181	179
125°	252	908	252	908	252	224
135°	300	705	300	705	300	232
145°	348	572	348	572	348	218
155°	393	492	393	492	393	181
165°	425	459	425	459	425	120
175°	441	444	441	444	441	42
180°	441	441	441	441	441	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	2114.7	2114.7	2126.6	2130.5	2130.5	2124.6	2118.7	2124.6	2142.5	2148.4	2146.4
5°	2106.8	2122.7	2144.5	2148.4	2152.4	2150.5	2146.4	2150.5	2170.3	2174.2	2176.2
7.5°	2090.9	2120.7	2148.4	2154.4	2160.3	2154.4	2152.4	2156.4	2176.2	2180.1	2180.1
10°	2071.1	2112.7	2144.5	2148.4	2154.4	2148.4	2148.4	2156.4	2176.2	2180.1	2182.2
12.5°	2043.3	2100.9	2130.5	2134.6	2142.5	2140.5	2138.5	2146.4	2166.3	2170.3	2170.3
15°	2011.5	2079.0	2106.8	2110.7	2124.6	2120.7	2120.7	2128.6	2150.5	2156.4	2154.4
17.5°	1968.0	2051.3	2083.0	2088.9	2098.9	2096.8	2098.9	2106.8	2126.6	2130.5	2132.6
20°	1918.4	2013.5	2051.3	2057.2	2067.1	2067.1	2067.1	2077.0	2096.8	2104.8	2104.8
22.5°	1850.9	1973.9	2013.5	2017.6	2029.4	2029.4	2033.4	2047.2	2065.1	2067.1	2067.1
25°	1771.5	1930.2	1963.9	1975.8	1987.8	1993.7	1999.7	2007.6	2013.5	2011.5	2013.5
27.5°	1688.2	1874.7	1918.4	1926.2	1942.1	1948.0	1956.0	1958.0	1960.0	1965.9	1961.9
30°	1595.0	1797.3	1862.8	1870.7	1896.5	1900.5	1892.5	1896.5	1906.4	1910.4	1914.3
32.5°	1489.8	1682.2	1805.3	1823.1	1846.9	1835.0	1833.0	1839.0	1854.9	1854.9	1858.8
35°	1347.0	1593.0	1751.7	1767.6	1785.4	1771.5	1779.4	1781.4	1791.4	1797.3	1795.3
37.5°	1190.3	1515.6	1696.1	1708.0	1722.0	1704.1	1715.9	1722.0	1729.8	1725.9	1725.9
40°	1051.4	1394.6	1630.6	1638.6	1650.5	1636.7	1648.5	1652.5	1656.5	1652.5	1650.5
42.5°	948.2	1261.7	1561.2	1571.2	1563.2	1573.2	1577.1	1585.1	1579.1	1571.2	1571.2
45°	868.9	1226.0	1485.9	1497.7	1485.9	1501.8	1507.7	1507.7	1489.8	1485.9	1483.8
47.5°	843.1	1154.6	1410.5	1410.5	1404.6	1424.4	1434.2	1420.4	1402.6	1396.6	1396.6
50°	841.2	1075.2	1307.3	1299.4	1327.2	1350.9	1341.1	1327.2	1313.3	1291.5	1291.5
52.5°	763.8	978.0	1174.4	1204.2	1247.8	1261.7	1245.8	1231.9	1208.1	1198.2	1190.3
55°	708.2	876.8	1053.3	1112.9	1158.6	1176.4	1146.6	1132.7	1097.0	1091.1	1087.2
57.5°	696.3	730.0	942.3	1017.7	1073.3	1071.3	1053.3	1027.6	997.8	991.9	989.9
60°	638.8	527.7	823.3	912.5	970.0	964.1	948.2	924.5	896.7	892.7	888.8
62.5°	579.3	382.9	688.3	789.6	870.8	868.9	855.1	819.3	799.4	789.6	781.6
65°	492.0	321.3	490.0	656.7	773.7	777.7	747.9	722.1	700.3	688.3	686.4
67.5°	375.0	261.9	331.3	547.5	680.4	676.5	638.8	626.9	599.1	593.2	581.2
70°	277.8	174.6	230.1	444.4	589.2	579.3	549.5	535.6	509.9	496.0	488.0
72.5°	230.1	140.8	168.6	345.2	496.0	484.0	458.3	442.4	420.5	408.7	400.7
75°	186.5	148.8	129.0	255.9	402.7	394.8	370.9	355.1	337.2	321.3	323.3
77.5°	136.9	138.8	103.1	188.4	319.4	307.5	293.6	273.8	265.8	250.0	250.0
80°	103.1	109.2	77.4	129.0	230.1	230.1	218.2	204.3	190.4	182.5	182.5
82.5°	69.4	69.4	57.5	81.3	156.7	150.8	142.9	138.8	130.9	127.0	127.0
85°	31.7	39.6	35.7	49.6	85.3	89.2	89.2	85.3	83.3	79.4	81.3
87.5°	10.0	17.8	21.8	27.8	43.7	45.7	47.6	47.6	47.6	49.6	49.6
90°	3.0	5.3	7.7	8.3	13.0	19.3	22.5	20.0	15.0	11.2	11.2
92.5°	11.8	31.9	52.2	57.2	80.4	111.3	126.8	111.1	79.8	56.3	54.0
95°	28.4	65.3	102.1	111.4	197.8	313.1	370.6	330.7	250.9	191.1	184.3
97.5°	49.2	81.7	114.3	122.4	266.4	458.6	554.6	529.4	479.0	441.1	428.2
100°	65.2	94.7	124.1	131.5	291.5	504.6	611.2	613.1	616.7	619.5	604.1
102.5°	78.8	106.3	133.8	140.7	302.9	519.1	627.2	659.3	723.5	771.7	758.5
105°	102.0	125.2	148.5	154.3	311.4	520.7	625.4	697.4	841.5	949.5	942.4
107.5°	125.6	147.3	169.1	174.5	313.0	497.5	589.8	690.3	891.2	1042.0	1043.7
110°	141.6	161.2	180.8	185.8	310.6	477.0	560.2	672.6	897.2	1065.7	1073.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.4	176.0	194.7	199.4	310.7	459.1	533.3	648.3	878.1	1050.6	1061.9
115°	181.0	198.3	215.5	219.9	313.5	438.5	501.0	611.7	833.2	999.3	1015.0
117.5°	204.4	220.1	235.8	239.7	319.4	425.7	478.8	578.8	778.6	928.5	946.0
120°	218.0	232.8	247.6	251.2	324.1	421.2	469.8	561.1	743.8	880.8	897.8
122.5°	231.4	246.3	261.1	264.8	330.9	419.0	463.0	545.3	709.7	833.1	849.7
125°	251.8	265.4	279.0	282.4	340.2	417.2	455.6	525.4	665.2	770.0	785.3
127.5°	268.4	282.1	295.8	299.3	349.3	416.1	449.4	509.4	629.4	719.3	732.3
130°	277.3	292.1	306.8	310.5	356.0	416.7	447.1	500.5	607.3	687.3	699.4
132.5°	286.5	301.2	316.0	319.7	361.5	417.2	445.0	492.8	588.4	660.1	670.9
135°	300.1	313.5	327.0	330.3	367.4	416.8	441.4	481.5	561.5	621.6	630.8
137.5°	314.0	327.4	340.6	343.9	376.3	419.3	440.8	474.7	542.3	593.1	600.7
140°	325.6	337.8	350.1	353.2	381.7	419.7	438.8	468.0	526.4	570.3	577.4
142.5°	334.5	345.8	357.1	360.0	386.2	421.2	438.8	464.4	515.8	554.3	560.4
145°	348.2	358.0	367.9	370.3	392.1	421.2	435.8	456.8	498.8	530.3	534.9
147.5°	361.8	371.3	381.0	383.4	400.8	424.2	435.8	452.4	485.4	510.2	514.0
150°	370.6	379.3	388.0	390.2	405.3	425.7	435.8	449.8	477.7	498.6	501.7
152.5°	379.8	386.4	392.9	394.6	408.3	426.6	435.8	447.7	471.6	489.5	491.8
155°	393.4	398.2	403.2	404.4	414.8	428.8	435.8	445.3	464.3	478.5	480.1
157.5°	403.5	408.2	413.0	414.2	421.4	431.0	435.8	443.2	457.9	468.9	470.0
160°	410.4	414.0	417.8	418.7	424.4	432.0	435.8	442.1	454.7	464.2	464.8
162.5°	417.2	419.9	422.7	423.4	427.5	433.1	435.8	441.1	451.8	459.8	460.4
165°	424.6	427.0	429.6	430.2	432.1	434.5	435.8	439.7	447.2	453.0	453.6
167.5°	431.4	432.6	433.7	434.0	435.6	437.7	438.8	441.2	446.3	450.0	450.3
170°	435.8	437.0	438.2	438.5	438.6	438.7	438.8	441.2	446.3	450.0	450.0
172.5°	438.2	438.5	438.7	438.8	438.8	438.8	438.8	440.7	444.7	447.6	447.4
175°	441.4	441.4	441.4	441.4	440.5	439.4	438.8	440.1	442.5	444.4	444.4
177.5°	441.4	441.4	441.4	441.4	440.7	439.9	439.4	440.3	442.3	443.8	443.5
180°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	2150.5	2144.5	2150.5	2146.4	2148.4	2142.5	2124.6	2118.7	2124.6	2130.5	2130.5
5°	2176.2	2172.3	2176.2	2176.2	2174.2	2170.3	2150.5	2146.4	2150.5	2152.4	2148.4
7.5°	2184.2	2178.2	2184.2	2180.1	2180.1	2176.2	2156.4	2152.4	2154.4	2160.3	2154.4
10°	2184.2	2178.2	2184.2	2182.2	2180.1	2176.2	2156.4	2148.4	2148.4	2154.4	2148.4
12.5°	2174.2	2170.3	2174.2	2170.3	2170.3	2166.3	2146.4	2138.5	2140.5	2142.5	2134.6
15°	2158.4	2152.4	2158.4	2154.4	2156.4	2150.5	2128.6	2120.7	2120.7	2124.6	2110.7
17.5°	2134.6	2126.6	2134.6	2132.6	2130.5	2126.6	2106.8	2098.9	2096.8	2098.9	2088.9
20°	2106.8	2100.9	2106.8	2104.8	2104.8	2096.8	2077.0	2067.1	2067.1	2067.1	2057.2
22.5°	2063.1	2057.2	2063.1	2067.1	2067.1	2065.1	2047.2	2033.4	2029.4	2029.4	2017.6
25°	2013.5	2007.6	2013.5	2013.5	2011.5	2013.5	2007.6	1999.7	1993.7	1987.8	1975.8
27.5°	1965.9	1961.9	1965.9	1961.9	1965.9	1960.0	1958.0	1956.0	1948.0	1942.1	1926.2
30°	1918.4	1914.3	1918.4	1914.3	1910.4	1906.4	1896.5	1892.5	1900.5	1896.5	1870.7
32.5°	1858.8	1854.9	1858.8	1858.8	1854.9	1854.9	1839.0	1833.0	1835.0	1846.9	1823.1
35°	1797.3	1791.4	1797.3	1795.3	1797.3	1791.4	1781.4	1779.4	1771.5	1785.4	1767.6
37.5°	1725.9	1720.0	1725.9	1725.9	1725.9	1729.8	1722.0	1715.9	1704.1	1722.0	1708.0
40°	1652.5	1644.5	1652.5	1650.5	1652.5	1656.5	1652.5	1648.5	1636.7	1650.5	1638.6
42.5°	1569.2	1567.1	1569.2	1571.2	1571.2	1579.1	1585.1	1577.1	1573.2	1563.2	1571.2
45°	1479.9	1475.9	1479.9	1483.8	1485.9	1489.8	1507.7	1507.7	1501.8	1485.9	1497.7
47.5°	1384.6	1374.8	1384.6	1396.6	1396.6	1402.6	1420.4	1434.2	1424.4	1404.6	1410.5
50°	1283.5	1285.4	1283.5	1291.5	1291.5	1313.3	1327.2	1341.1	1350.9	1327.2	1299.4
52.5°	1184.3	1182.3	1184.3	1190.3	1198.2	1208.1	1231.9	1245.8	1261.7	1247.8	1204.2
55°	1085.1	1089.1	1085.1	1087.2	1091.1	1097.0	1132.7	1146.6	1176.4	1158.6	1112.9
57.5°	985.9	980.0	985.9	989.9	991.9	997.8	1027.6	1053.3	1071.3	1073.3	1017.7
60°	870.8	862.9	870.8	888.8	892.7	896.7	924.5	948.2	964.1	970.0	912.5
62.5°	769.7	755.9	769.7	781.6	789.6	799.4	819.3	855.1	868.9	870.8	789.6
65°	662.6	656.7	662.6	686.4	688.3	700.3	722.1	747.9	777.7	773.7	656.7
67.5°	565.4	565.4	565.4	581.2	593.2	599.1	626.9	638.8	676.5	680.4	547.5
70°	476.1	474.2	476.1	488.0	496.0	509.9	535.6	549.5	579.3	589.2	444.4
72.5°	390.9	388.8	390.9	400.7	408.7	420.5	442.4	458.3	484.0	496.0	345.2
75°	315.4	311.5	315.4	323.3	321.3	337.2	355.1	370.9	394.8	402.7	255.9
77.5°	242.1	242.1	242.1	250.0	250.0	265.8	273.8	293.6	307.5	319.4	188.4
80°	180.5	178.6	180.5	182.5	182.5	190.4	204.3	218.2	230.1	230.1	129.0
82.5°	127.0	123.0	127.0	127.0	127.0	130.9	138.8	142.9	150.8	156.7	81.3
85°	79.4	79.4	79.4	81.3	79.4	83.3	85.3	89.2	89.2	85.3	49.6
87.5°	51.6	49.6	51.6	49.6	49.6	47.6	47.6	47.6	45.7	43.7	27.8
90°	11.2	11.2	11.2	11.2	11.2	15.0	20.0	22.5	19.3	13.0	8.3
92.5°	45.2	36.2	45.2	54.0	56.3	79.8	111.1	126.8	111.3	80.4	57.2
95°	157.2	130.1	157.2	184.3	191.1	250.9	330.7	370.6	313.1	197.8	111.4
97.5°	376.7	325.0	376.7	428.2	441.1	479.0	529.4	554.6	458.6	266.4	122.4
100°	542.7	481.2	542.7	604.1	619.5	616.7	613.1	611.2	504.6	291.5	131.5
102.5°	705.9	653.2	705.9	758.5	771.7	723.5	659.3	627.2	519.1	302.9	140.7
105°	914.1	885.8	914.1	942.4	949.5	841.5	697.4	625.4	520.7	311.4	154.3
107.5°	1050.6	1057.4	1050.6	1043.7	1042.0	891.2	690.3	589.8	497.5	313.0	174.5
110°	1102.5	1132.0	1102.5	1073.1	1065.7	897.2	672.6	560.2	477.0	310.6	185.8



TEST NUMBER: P933878

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1107.2	1152.4	1107.2	1061.9	1050.6	878.1	648.3	533.3	459.1	310.7	199.4
115°	1077.8	1140.6	1077.8	1015.0	999.3	833.2	611.7	501.0	438.5	313.5	219.9
117.5°	1015.6	1085.2	1015.6	946.0	928.5	778.6	578.8	478.8	425.7	319.4	239.7
120°	965.4	1033.0	965.4	897.8	880.8	743.8	561.1	469.8	421.2	324.1	251.2
122.5°	916.6	983.3	916.6	849.7	833.1	709.7	545.3	463.0	419.0	330.9	264.8
125°	846.8	908.3	846.8	785.3	770.0	665.2	525.4	455.6	417.2	340.2	282.4
127.5°	784.2	836.0	784.2	732.3	719.3	629.4	509.4	449.4	416.1	349.3	299.3
130°	747.3	795.2	747.3	699.4	687.3	607.3	500.5	447.1	416.7	356.0	310.5
132.5°	713.8	756.7	713.8	670.9	660.1	588.4	492.8	445.0	417.2	361.5	319.7
135°	667.8	704.8	667.8	630.8	621.6	561.5	481.5	441.4	416.8	367.4	330.3
137.5°	630.9	661.3	630.9	600.7	593.1	542.3	474.7	440.8	419.3	376.3	343.9
140°	605.7	634.0	605.7	577.4	570.3	526.4	468.0	438.8	419.7	381.7	353.2
142.5°	584.8	609.2	584.8	560.4	554.3	515.8	464.4	438.8	421.2	386.2	360.0
145°	553.3	571.8	553.3	534.9	530.3	498.8	456.8	435.8	421.2	392.1	370.3
147.5°	529.3	544.6	529.3	514.0	510.2	485.4	452.4	435.8	424.2	400.8	383.4
150°	514.1	526.4	514.1	501.7	498.6	477.7	449.8	435.8	425.7	405.3	390.2
152.5°	501.1	510.5	501.1	491.8	489.5	471.6	447.7	435.8	426.6	408.3	394.6
155°	486.2	492.4	486.2	480.1	478.5	464.3	445.3	435.8	428.8	414.8	404.4
157.5°	474.5	478.8	474.5	470.0	468.9	457.9	443.2	435.8	431.0	421.4	414.2
160°	467.4	469.8	467.4	464.8	464.2	454.7	442.1	435.8	432.0	424.4	418.7
162.5°	462.7	465.1	462.7	460.4	459.8	451.8	441.1	435.8	433.1	427.5	423.4
165°	456.1	458.6	456.1	453.6	453.0	447.2	439.7	435.8	434.5	432.1	430.2
167.5°	451.3	452.4	451.3	450.3	450.0	446.3	441.2	438.8	437.7	435.6	434.0
170°	450.0	450.0	450.0	450.0	450.0	446.3	441.2	438.8	438.7	438.6	438.5
172.5°	446.5	445.6	446.5	447.4	447.6	444.7	440.7	438.8	438.8	438.8	438.8
175°	444.4	444.4	444.4	444.4	444.4	442.5	440.1	438.8	439.4	440.5	441.4
177.5°	442.5	441.4	442.5	443.5	443.8	442.3	440.3	439.4	439.9	440.7	441.4
180°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4



TEST NUMBER: P933878

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	2126.6	2114.7	2114.7	2094.9	2087.0	2081.0	2071.1	2041.3	2033.4	2025.4	2037.4
5°	2144.5	2122.7	2106.8	2071.1	2041.3	2029.4	1991.7	1920.3	1872.7	1837.0	1817.2
7.5°	2148.4	2120.7	2090.9	2035.4	1963.9	1932.2	1817.2	1686.3	1650.5	1618.8	1598.9
10°	2144.5	2112.7	2071.1	1987.8	1819.2	1763.6	1648.5	1563.2	1541.4	1535.5	1541.4
12.5°	2130.5	2100.9	2043.3	1904.5	1668.4	1630.6	1563.2	1513.6	1509.7	1519.6	1573.2
15°	2106.8	2079.0	2011.5	1793.3	1585.1	1557.3	1509.7	1491.8	1513.6	1583.0	1743.7
17.5°	2083.0	2051.3	1968.0	1684.3	1521.6	1501.8	1468.0	1503.7	1626.7	1720.0	1773.5
20°	2051.3	2013.5	1918.4	1604.9	1475.9	1458.1	1442.2	1602.9	1696.1	1729.8	1759.6
22.5°	2013.5	1973.9	1850.9	1549.3	1428.3	1414.4	1424.4	1658.5	1696.1	1720.0	1745.7
25°	1963.9	1930.2	1771.5	1505.7	1390.7	1374.8	1412.4	1652.5	1674.3	1680.2	1731.8
27.5°	1918.4	1874.7	1688.2	1466.0	1345.0	1339.1	1422.4	1626.7	1642.6	1648.5	1704.1
30°	1862.8	1797.3	1595.0	1424.4	1297.4	1295.4	1424.4	1595.0	1591.0	1606.9	1662.4
32.5°	1805.3	1682.2	1489.8	1372.8	1251.7	1249.8	1410.5	1547.3	1543.4	1565.2	1606.9
35°	1751.7	1593.0	1347.0	1313.3	1194.2	1196.2	1376.8	1491.8	1493.8	1513.6	1539.4
37.5°	1696.1	1515.6	1190.3	1247.8	1138.7	1138.7	1331.1	1440.3	1436.3	1442.2	1477.9
40°	1630.6	1394.6	1051.4	1162.5	1087.2	1081.1	1275.6	1384.6	1370.8	1368.9	1418.4
42.5°	1561.2	1261.7	948.2	1049.4	1027.6	1019.6	1208.1	1317.2	1291.5	1297.4	1360.9
45°	1485.9	1226.0	868.9	886.7	966.1	960.2	1134.7	1239.9	1222.0	1237.9	1303.4
47.5°	1410.5	1154.6	843.1	736.0	900.6	898.6	1053.3	1164.5	1154.6	1170.5	1239.9
50°	1307.3	1075.2	841.2	630.8	827.3	835.1	956.2	1091.1	1091.1	1105.0	1178.4
52.5°	1174.4	978.0	763.8	571.3	742.0	765.7	870.8	1027.6	1031.6	1045.5	1110.9
55°	1053.3	876.8	708.2	525.7	640.8	692.4	787.5	962.1	970.0	983.9	1043.5
57.5°	942.3	730.0	696.3	472.1	547.5	597.1	714.2	898.6	902.6	914.5	972.1
60°	823.3	527.7	638.8	414.6	466.2	503.8	646.7	823.3	837.1	845.1	894.7
62.5°	688.3	382.9	579.3	375.0	426.5	434.4	591.2	751.8	769.7	775.7	805.5
65°	490.0	321.3	492.0	341.3	384.8	386.8	531.7	678.5	694.3	704.2	726.1
67.5°	331.3	261.9	375.0	309.5	353.1	355.1	474.2	593.2	615.0	623.0	636.8
70°	230.1	174.6	277.8	275.8	317.4	321.3	412.6	515.8	535.6	541.6	549.5
72.5°	168.6	140.8	230.1	248.0	279.7	283.7	349.1	428.5	448.3	454.3	458.3
75°	129.0	148.8	186.5	216.2	238.0	240.0	285.6	349.1	363.0	367.0	369.0
77.5°	103.1	138.8	136.9	174.6	194.4	190.4	224.2	269.8	281.7	281.7	281.7
80°	77.4	109.2	103.1	125.0	142.9	138.8	160.7	192.5	196.4	200.4	198.4
82.5°	57.5	69.4	69.4	79.4	95.2	91.3	107.1	125.0	125.0	125.0	129.0
85°	35.7	39.6	31.7	41.7	53.5	51.6	59.6	67.4	69.4	69.4	65.5
87.5°	21.8	17.8	10.0	15.9	23.8	23.8	27.8	29.8	27.8	27.8	27.8
90°	7.7	5.3	3.0	5.3	7.7	8.3	13.0	19.3	22.5	20.0	15.0
92.5°	52.2	31.9	11.8	31.9	52.2	57.2	80.4	111.3	126.8	111.1	79.8
95°	102.1	65.3	28.4	65.3	102.1	111.4	197.8	313.1	370.6	330.7	250.9
97.5°	114.3	81.7	49.2	81.7	114.3	122.4	266.4	458.6	554.6	529.4	479.0
100°	124.1	94.7	65.2	94.7	124.1	131.5	291.5	504.6	611.2	613.1	616.7
102.5°	133.8	106.3	78.8	106.3	133.8	140.7	302.9	519.1	627.2	659.3	723.5
105°	148.5	125.2	102.0	125.2	148.5	154.3	311.4	520.7	625.4	697.4	841.5
107.5°	169.1	147.3	125.6	147.3	169.1	174.5	313.0	497.5	589.8	690.3	891.2
110°	180.8	161.2	141.6	161.2	180.8	185.8	310.6	477.0	560.2	672.6	897.2



TEST NUMBER: P933878

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.7	176.0	157.4	176.0	194.7	199.4	310.7	459.1	533.3	648.3	878.1
115°	215.5	198.3	181.0	198.3	215.5	219.9	313.5	438.5	501.0	611.7	833.2
117.5°	235.8	220.1	204.4	220.1	235.8	239.7	319.4	425.7	478.8	578.8	778.6
120°	247.6	232.8	218.0	232.8	247.6	251.2	324.1	421.2	469.8	561.1	743.8
122.5°	261.1	246.3	231.4	246.3	261.1	264.8	330.9	419.0	463.0	545.3	709.7
125°	279.0	265.4	251.8	265.4	279.0	282.4	340.2	417.2	455.6	525.4	665.2
127.5°	295.8	282.1	268.4	282.1	295.8	299.3	349.3	416.1	449.4	509.4	629.4
130°	306.8	292.1	277.3	292.1	306.8	310.5	356.0	416.7	447.1	500.5	607.3
132.5°	316.0	301.2	286.5	301.2	316.0	319.7	361.5	417.2	445.0	492.8	588.4
135°	327.0	313.5	300.1	313.5	327.0	330.3	367.4	416.8	441.4	481.5	561.5
137.5°	340.6	327.4	314.0	327.4	340.6	343.9	376.3	419.3	440.8	474.7	542.3
140°	350.1	337.8	325.6	337.8	350.1	353.2	381.7	419.7	438.8	468.0	526.4
142.5°	357.1	345.8	334.5	345.8	357.1	360.0	386.2	421.2	438.8	464.4	515.8
145°	367.9	358.0	348.2	358.0	367.9	370.3	392.1	421.2	435.8	456.8	498.8
147.5°	381.0	371.3	361.8	371.3	381.0	383.4	400.8	424.2	435.8	452.4	485.4
150°	388.0	379.3	370.6	379.3	388.0	390.2	405.3	425.7	435.8	449.8	477.7
152.5°	392.9	386.4	379.8	386.4	392.9	394.6	408.3	426.6	435.8	447.7	471.6
155°	403.2	398.2	393.4	398.2	403.2	404.4	414.8	428.8	435.8	445.3	464.3
157.5°	413.0	408.2	403.5	408.2	413.0	414.2	421.4	431.0	435.8	443.2	457.9
160°	417.8	414.0	410.4	414.0	417.8	418.7	424.4	432.0	435.8	442.1	454.7
162.5°	422.7	419.9	417.2	419.9	422.7	423.4	427.5	433.1	435.8	441.1	451.8
165°	429.6	427.0	424.6	427.0	429.6	430.2	432.1	434.5	435.8	439.7	447.2
167.5°	433.7	432.6	431.4	432.6	433.7	434.0	435.6	437.7	438.8	441.2	446.3
170°	438.2	437.0	435.8	437.0	438.2	438.5	438.6	438.7	438.8	441.2	446.3
172.5°	438.7	438.5	438.2	438.5	438.7	438.8	438.8	438.8	438.8	440.7	444.7
175°	441.4	441.4	441.4	441.4	441.4	441.4	440.5	439.4	438.8	440.1	442.5
177.5°	441.4	441.4	441.4	441.4	441.4	441.4	440.7	439.9	439.4	440.3	442.3
180°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4



TEST NUMBER: P933878
 CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	2023.5	2017.6	2025.4	2003.7	2025.4	2017.6	2023.5	2037.4	2025.4	2033.4	2041.3
5°	1775.5	1765.5	1733.9	1708.0	1733.9	1765.5	1775.5	1817.2	1837.0	1872.7	1920.3
7.5°	1587.1	1579.1	1571.2	1555.3	1571.2	1579.1	1587.1	1598.9	1618.8	1650.5	1686.3
10°	1545.4	1547.3	1559.3	1557.3	1559.3	1547.3	1545.4	1541.4	1535.5	1541.4	1563.2
12.5°	1652.5	1670.4	1735.9	1731.8	1735.9	1670.4	1652.5	1573.2	1519.6	1509.7	1513.6
15°	1775.5	1781.4	1795.3	1797.3	1795.3	1781.4	1775.5	1743.7	1583.0	1513.6	1491.8
17.5°	1787.4	1789.4	1799.3	1799.3	1799.3	1789.4	1787.4	1773.5	1720.0	1626.7	1503.7
20°	1777.5	1781.4	1801.3	1805.3	1801.3	1781.4	1777.5	1759.6	1729.8	1696.1	1602.9
22.5°	1773.5	1781.4	1797.3	1795.3	1797.3	1781.4	1773.5	1745.7	1720.0	1696.1	1658.5
25°	1753.7	1753.7	1755.7	1757.6	1755.7	1753.7	1753.7	1731.8	1680.2	1674.3	1652.5
27.5°	1712.0	1715.9	1727.9	1725.9	1727.9	1715.9	1712.0	1704.1	1648.5	1642.6	1626.7
30°	1674.3	1670.4	1660.4	1652.5	1660.4	1670.4	1674.3	1662.4	1606.9	1591.0	1595.0
32.5°	1610.8	1600.9	1591.0	1585.1	1591.0	1600.9	1610.8	1606.9	1565.2	1543.4	1547.3
35°	1535.5	1537.5	1535.5	1529.5	1535.5	1537.5	1535.5	1539.4	1513.6	1493.8	1491.8
37.5°	1481.9	1485.9	1483.8	1475.9	1483.8	1485.9	1481.9	1477.9	1442.2	1436.3	1440.3
40°	1426.3	1428.3	1426.3	1420.4	1426.3	1428.3	1426.3	1418.4	1368.9	1370.8	1384.6
42.5°	1372.8	1370.8	1364.8	1360.9	1364.8	1370.8	1372.8	1360.9	1297.4	1291.5	1317.2
45°	1311.3	1313.3	1301.3	1295.4	1301.3	1313.3	1311.3	1303.4	1237.9	1222.0	1239.9
47.5°	1249.8	1249.8	1239.9	1233.9	1239.9	1249.8	1249.8	1239.9	1170.5	1154.6	1164.5
50°	1184.3	1182.3	1168.4	1166.4	1168.4	1182.3	1184.3	1178.4	1105.0	1091.1	1091.1
52.5°	1109.0	1109.0	1110.9	1114.9	1110.9	1109.0	1109.0	1110.9	1045.5	1031.6	1027.6
55°	1043.5	1045.5	1059.4	1063.3	1059.4	1045.5	1043.5	1043.5	983.9	970.0	962.1
57.5°	976.0	976.0	985.9	985.9	985.9	976.0	976.0	972.1	914.5	902.6	898.6
60°	898.6	902.6	910.6	908.6	910.6	902.6	898.6	894.7	845.1	837.1	823.3
62.5°	817.3	821.3	823.3	819.3	823.3	821.3	817.3	805.5	775.7	769.7	751.8
65°	732.0	736.0	737.9	734.0	737.9	736.0	732.0	726.1	704.2	694.3	678.5
67.5°	644.7	642.8	640.8	648.7	640.8	642.8	644.7	636.8	623.0	615.0	593.2
70°	555.4	555.4	553.4	557.5	553.4	555.4	555.4	549.5	541.6	535.6	515.8
72.5°	460.3	458.3	466.2	460.3	466.2	458.3	460.3	458.3	454.3	448.3	428.5
75°	367.0	370.9	367.0	372.9	367.0	370.9	367.0	369.0	367.0	363.0	349.1
77.5°	279.7	283.7	279.7	279.7	279.7	283.7	279.7	281.7	281.7	281.7	269.8
80°	198.4	196.4	196.4	194.4	196.4	196.4	198.4	198.4	200.4	196.4	192.5
82.5°	127.0	125.0	125.0	129.0	125.0	125.0	127.0	129.0	125.0	125.0	125.0
85°	69.4	71.4	67.4	67.4	67.4	71.4	69.4	65.5	69.4	69.4	67.4
87.5°	25.8	23.8	23.8	23.8	23.8	23.8	25.8	27.8	27.8	27.8	29.8
90°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	15.0	20.0	22.5	19.3
92.5°	56.3	54.0	45.2	36.2	45.2	54.0	56.3	79.8	111.1	126.8	111.3
95°	191.1	184.3	157.2	130.1	157.2	184.3	191.1	250.9	330.7	370.6	313.1
97.5°	441.1	428.2	376.7	325.0	376.7	428.2	441.1	479.0	529.4	554.6	458.6
100°	619.5	604.1	542.7	481.2	542.7	604.1	619.5	616.7	613.1	611.2	504.6
102.5°	771.7	758.5	705.9	653.2	705.9	758.5	771.7	723.5	659.3	627.2	519.1
105°	949.5	942.4	914.1	885.8	914.1	942.4	949.5	841.5	697.4	625.4	520.7
107.5°	1042.0	1043.7	1050.6	1057.4	1050.6	1043.7	1042.0	891.2	690.3	589.8	497.5
110°	1065.7	1073.1	1102.5	1132.0	1102.5	1073.1	1065.7	897.2	672.6	560.2	477.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1050.6	1061.9	1107.2	1152.4	1107.2	1061.9	1050.6	878.1	648.3	533.3	459.1
115°	999.3	1015.0	1077.8	1140.6	1077.8	1015.0	999.3	833.2	611.7	501.0	438.5
117.5°	928.5	946.0	1015.6	1085.2	1015.6	946.0	928.5	778.6	578.8	478.8	425.7
120°	880.8	897.8	965.4	1033.0	965.4	897.8	880.8	743.8	561.1	469.8	421.2
122.5°	833.1	849.7	916.6	983.3	916.6	849.7	833.1	709.7	545.3	463.0	419.0
125°	770.0	785.3	846.8	908.3	846.8	785.3	770.0	665.2	525.4	455.6	417.2
127.5°	719.3	732.3	784.2	836.0	784.2	732.3	719.3	629.4	509.4	449.4	416.1
130°	687.3	699.4	747.3	795.2	747.3	699.4	687.3	607.3	500.5	447.1	416.7
132.5°	660.1	670.9	713.8	756.7	713.8	670.9	660.1	588.4	492.8	445.0	417.2
135°	621.6	630.8	667.8	704.8	667.8	630.8	621.6	561.5	481.5	441.4	416.8
137.5°	593.1	600.7	630.9	661.3	630.9	600.7	593.1	542.3	474.7	440.8	419.3
140°	570.3	577.4	605.7	634.0	605.7	577.4	570.3	526.4	468.0	438.8	419.7
142.5°	554.3	560.4	584.8	609.2	584.8	560.4	554.3	515.8	464.4	438.8	421.2
145°	530.3	534.9	553.3	571.8	553.3	534.9	530.3	498.8	456.8	435.8	421.2
147.5°	510.2	514.0	529.3	544.6	529.3	514.0	510.2	485.4	452.4	435.8	424.2
150°	498.6	501.7	514.1	526.4	514.1	501.7	498.6	477.7	449.8	435.8	425.7
152.5°	489.5	491.8	501.1	510.5	501.1	491.8	489.5	471.6	447.7	435.8	426.6
155°	478.5	480.1	486.2	492.4	486.2	480.1	478.5	464.3	445.3	435.8	428.8
157.5°	468.9	470.0	474.5	478.8	474.5	470.0	468.9	457.9	443.2	435.8	431.0
160°	464.2	464.8	467.4	469.8	467.4	464.8	464.2	454.7	442.1	435.8	432.0
162.5°	459.8	460.4	462.7	465.1	462.7	460.4	459.8	451.8	441.1	435.8	433.1
165°	453.0	453.6	456.1	458.6	456.1	453.6	453.0	447.2	439.7	435.8	434.5
167.5°	450.0	450.3	451.3	452.4	451.3	450.3	450.0	446.3	441.2	438.8	437.7
170°	450.0	450.0	450.0	450.0	450.0	450.0	450.0	446.3	441.2	438.8	438.7
172.5°	447.6	447.4	446.5	445.6	446.5	447.4	447.6	444.7	440.7	438.8	438.8
175°	444.4	444.4	444.4	444.4	444.4	444.4	444.4	442.5	440.1	438.8	439.4
177.5°	443.8	443.5	442.5	441.4	442.5	443.5	443.8	442.3	440.3	439.4	439.9
180°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	2071.1	2081.0	2087.0	2094.9	2114.7
5°	1991.7	2029.4	2041.3	2071.1	2106.8
7.5°	1817.2	1932.2	1963.9	2035.4	2090.9
10°	1648.5	1763.6	1819.2	1987.8	2071.1
12.5°	1563.2	1630.6	1668.4	1904.5	2043.3
15°	1509.7	1557.3	1585.1	1793.3	2011.5
17.5°	1468.0	1501.8	1521.6	1684.3	1968.0
20°	1442.2	1458.1	1475.9	1604.9	1918.4
22.5°	1424.4	1414.4	1428.3	1549.3	1850.9
25°	1412.4	1374.8	1390.7	1505.7	1771.5
27.5°	1422.4	1339.1	1345.0	1466.0	1688.2
30°	1424.4	1295.4	1297.4	1424.4	1595.0
32.5°	1410.5	1249.8	1251.7	1372.8	1489.8
35°	1376.8	1196.2	1194.2	1313.3	1347.0
37.5°	1331.1	1138.7	1138.7	1247.8	1190.3
40°	1275.6	1081.1	1087.2	1162.5	1051.4
42.5°	1208.1	1019.6	1027.6	1049.4	948.2
45°	1134.7	960.2	966.1	886.7	868.9
47.5°	1053.3	898.6	900.6	736.0	843.1
50°	956.2	835.1	827.3	630.8	841.2
52.5°	870.8	765.7	742.0	571.3	763.8
55°	787.5	692.4	640.8	525.7	708.2
57.5°	714.2	597.1	547.5	472.1	696.3
60°	646.7	503.8	466.2	414.6	638.8
62.5°	591.2	434.4	426.5	375.0	579.3
65°	531.7	386.8	384.8	341.3	492.0
67.5°	474.2	355.1	353.1	309.5	375.0
70°	412.6	321.3	317.4	275.8	277.8
72.5°	349.1	283.7	279.7	248.0	230.1
75°	285.6	240.0	238.0	216.2	186.5
77.5°	224.2	190.4	194.4	174.6	136.9
80°	160.7	138.8	142.9	125.0	103.1
82.5°	107.1	91.3	95.2	79.4	69.4
85°	59.6	51.6	53.5	41.7	31.7
87.5°	27.8	23.8	23.8	15.9	10.0
90°	13.0	8.3	7.7	5.3	3.0
92.5°	80.4	57.2	52.2	31.9	11.8
95°	197.8	111.4	102.1	65.3	28.4
97.5°	266.4	122.4	114.3	81.7	49.2
100°	291.5	131.5	124.1	94.7	65.2
102.5°	302.9	140.7	133.8	106.3	78.8
105°	311.4	154.3	148.5	125.2	102.0
107.5°	313.0	174.5	169.1	147.3	125.6
110°	310.6	185.8	180.8	161.2	141.6



TEST NUMBER: P933878

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.7	199.4	194.7	176.0	157.4
115°	313.5	219.9	215.5	198.3	181.0
117.5°	319.4	239.7	235.8	220.1	204.4
120°	324.1	251.2	247.6	232.8	218.0
122.5°	330.9	264.8	261.1	246.3	231.4
125°	340.2	282.4	279.0	265.4	251.8
127.5°	349.3	299.3	295.8	282.1	268.4
130°	356.0	310.5	306.8	292.1	277.3
132.5°	361.5	319.7	316.0	301.2	286.5
135°	367.4	330.3	327.0	313.5	300.1
137.5°	376.3	343.9	340.6	327.4	314.0
140°	381.7	353.2	350.1	337.8	325.6
142.5°	386.2	360.0	357.1	345.8	334.5
145°	392.1	370.3	367.9	358.0	348.2
147.5°	400.8	383.4	381.0	371.3	361.8
150°	405.3	390.2	388.0	379.3	370.6
152.5°	408.3	394.6	392.9	386.4	379.8
155°	414.8	404.4	403.2	398.2	393.4
157.5°	421.4	414.2	413.0	408.2	403.5
160°	424.4	418.7	417.8	414.0	410.4
162.5°	427.5	423.4	422.7	419.9	417.2
165°	432.1	430.2	429.6	427.0	424.6
167.5°	435.6	434.0	433.7	432.6	431.4
170°	438.6	438.5	438.2	437.0	435.8
172.5°	438.8	438.8	438.7	438.5	438.2
175°	440.5	441.4	441.4	441.4	441.4
177.5°	440.7	441.4	441.4	441.4	441.4
180°	441.4	441.4	441.4	441.4	441.4



TEST NUMBER: P933878
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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	12.63	13.65	13.44	14.48	15.51	15.48	16.50	16.29	17.33	18.37
	3H	13.12	14.03	13.94	14.88	15.94	16.84	17.76	17.67	18.60	19.66
	4H	13.32	14.18	14.16	15.03	16.10	17.30	18.17	18.14	19.02	20.09
	6H	13.44	14.24	14.30	15.10	16.18	17.60	18.40	18.45	19.26	20.34
	8H	13.45	14.21	14.31	15.09	16.17	17.68	18.44	18.54	19.32	20.40
	12H	13.43	14.15	14.29	15.02	16.13	17.73	18.45	18.60	19.32	20.43
4H	2H	13.69	14.55	14.53	15.40	16.47	15.91	16.77	16.75	17.62	18.69
	3H	14.73	15.45	15.59	16.33	17.42	17.43	18.16	18.29	19.04	20.13
	4H	15.01	15.67	15.88	16.55	17.66	17.97	18.63	18.84	19.51	20.62
	6H	15.14	15.71	16.03	16.62	17.73	18.35	18.92	19.24	19.83	20.94
	8H	15.15	15.68	16.04	16.58	17.71	18.47	19.00	19.36	19.90	21.03
	12H	15.13	15.61	16.04	16.52	17.66	18.54	19.01	19.44	19.93	21.07
8H	4H	15.48	16.01	16.37	16.91	18.04	18.11	18.64	19.00	19.54	20.67
	6H	15.75	16.19	16.66	17.13	18.26	18.56	19.00	19.48	19.94	21.07
	8H	15.79	16.18	16.72	17.11	18.26	18.72	19.10	19.64	20.04	21.18
	12H	15.78	16.13	16.71	17.05	18.25	18.83	19.17	19.76	20.09	21.29
12H	4H	15.49	15.97	16.40	16.89	18.03	18.08	18.56	18.99	19.48	20.61
	6H	15.81	16.20	16.74	17.13	18.28	18.56	18.95	19.48	19.88	21.03
	8H	15.89	16.23	16.82	17.15	18.35	18.73	19.07	19.66	20.00	21.20