

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: P934347

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

**Test Information**

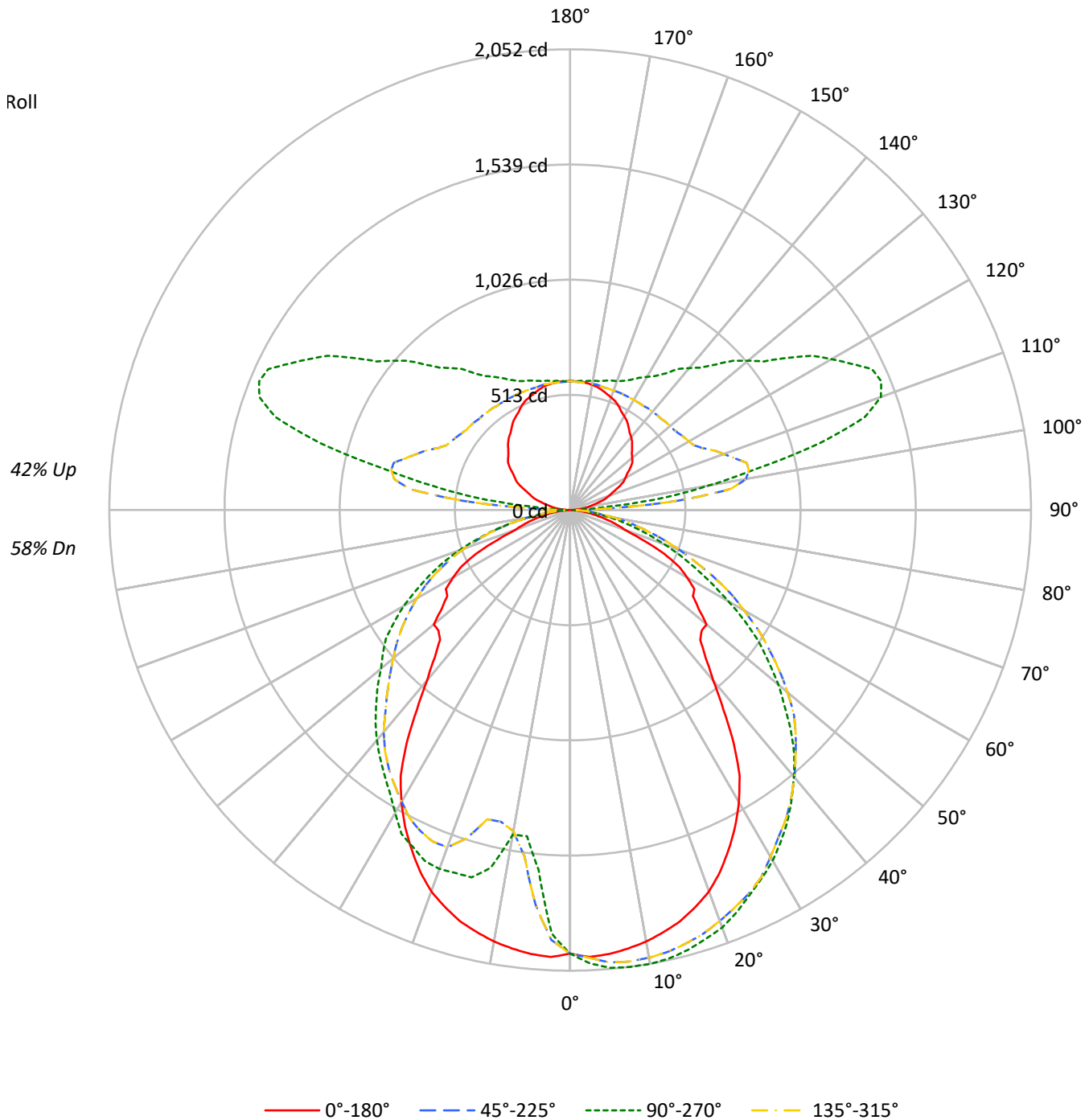
Test Method: LM-79-2019  
Report Number: P934347  
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8847.0 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9167	9167	9167	9167
5°	9236	9254	9236	7276
10°	9174	9115	9174	6517
15°	9074	8918	9074	7447
20°	8884	8684	8884	7462
25°	8496	8343	8496	7304
30°	7994	8060	7994	6957
35°	7126	7701	7126	6575
40°	5939	7279	5939	6287
45°	5306	6785	5306	5955
50°	5637	6197	5637	5623
55°	5304	5562	5304	5431
60°	5468	4724	5468	4974
65°	4957	3905	4957	4365
70°	3432	3112	3432	3659
75°	3009	2301	3009	2754
80°	2425	1521	2425	1656
85°	1393	806	1393	685

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8132 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.4	2.0
10°-20°	506.4	5.7
20°-30°	782.8	8.8
30°-40°	934.5	10.6
40°-50°	940.0	10.6
50°-60°	817.9	9.2
60°-70°	579.9	6.6
70°-80°	306.8	3.5
80°-90°	78.6	0.9
90°-100°	279.8	3.2
100°-110°	735.7	8.3
110°-120°	762.9	8.6
120°-130°	611.9	6.9
130°-140°	480.1	5.4
140°-150°	368.5	4.2
150°-160°	265.4	3.0
160°-170°	162.4	1.8
170°-180°	54.9	0.6
0°-30°	1467.6	16.6
0°-40°	2402.1	27.2
0°-60°	4160.0	47.0
0°-90°	5125.3	57.9
90°-120°	1778.5	20.1
90°-150°	3239.0	36.6
90°-180°	3722.0	42.1
0°-180°	8847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1976	1976	1976	1976	1976	
5°	1985	2047	1985	1610	1985	188
15°	1896	2028	1896	1694	1896	533
25°	1669	1892	1669	1656	1669	766
35°	1269	1688	1269	1441	1269	785
45°	819	1391	819	1221	819	656
55°	667	1026	667	1002	667	613
65°	464	619	464	692	464	443
75°	176	294	176	351	176	185
85°	30	75	30	64	30	40
90°	4	15	4	15	4	4
95°	37	169	37	169	37	41
105°	132	1152	132	1152	132	141
115°	236	1483	236	1483	236	233
125°	328	1181	328	1181	328	291
135°	390	917	390	917	390	302
145°	453	744	453	744	453	284
155°	512	640	512	640	512	235
165°	552	596	552	596	552	156
175°	574	578	574	578	574	54
180°	574	574	574	574	574	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9
2.5°	1992.7	1992.7	2003.9	2007.7	2007.7	2002.0	1996.4	2002.0	2018.9	2024.5	2022.6
5°	1985.2	2000.2	2020.7	2024.5	2028.2	2026.3	2022.6	2026.3	2045.0	2048.8	2050.7
7.5°	1970.3	1998.3	2024.5	2030.1	2035.7	2030.1	2028.2	2032.0	2050.7	2054.4	2054.4
10°	1951.6	1990.8	2020.7	2024.5	2030.1	2024.5	2024.5	2032.0	2050.7	2054.4	2056.3
12.5°	1925.4	1979.6	2007.7	2011.4	2018.9	2017.0	2015.1	2022.6	2041.3	2045.0	2045.0
15°	1895.5	1959.1	1985.2	1989.0	2002.0	1998.3	1998.3	2005.8	2026.3	2032.0	2030.1
17.5°	1854.4	1932.9	1962.8	1968.4	1977.7	1975.9	1977.7	1985.2	2003.9	2007.7	2009.5
20°	1807.6	1897.4	1932.9	1938.5	1947.8	1947.8	1947.8	1957.2	1975.9	1983.4	1983.4
22.5°	1744.1	1860.0	1897.4	1901.1	1912.3	1912.3	1916.1	1929.1	1946.0	1947.8	1947.8
25°	1669.3	1818.8	1850.6	1861.8	1873.1	1878.7	1884.3	1891.8	1897.4	1895.5	1897.4
27.5°	1590.8	1766.5	1807.6	1815.1	1830.1	1835.7	1843.1	1845.0	1846.9	1852.5	1848.8
30°	1502.9	1693.6	1755.3	1762.8	1787.1	1790.8	1783.3	1787.1	1796.4	1800.2	1803.9
32.5°	1403.8	1585.2	1701.1	1717.9	1740.3	1729.1	1727.2	1732.9	1747.8	1747.8	1751.5
35°	1269.2	1501.0	1650.6	1665.6	1682.4	1669.3	1676.8	1678.6	1688.0	1693.6	1691.7
37.5°	1121.6	1428.1	1598.3	1609.5	1622.6	1605.7	1616.9	1622.6	1630.0	1626.3	1626.3
40°	990.8	1314.1	1536.6	1544.0	1555.3	1542.2	1553.4	1557.1	1560.9	1557.1	1555.3
42.5°	893.6	1188.9	1471.1	1480.5	1473.0	1482.4	1486.1	1493.6	1488.0	1480.5	1480.5
45°	818.8	1155.2	1400.1	1411.3	1400.1	1415.1	1420.7	1420.7	1403.8	1400.1	1398.2
47.5°	794.5	1088.0	1329.1	1329.1	1323.5	1342.1	1351.5	1338.4	1321.6	1316.0	1316.0
50°	792.6	1013.2	1231.8	1224.4	1250.5	1273.0	1263.6	1250.5	1237.5	1216.9	1216.9
52.5°	719.7	921.6	1106.7	1134.6	1175.8	1188.9	1173.9	1160.8	1138.4	1129.0	1121.6
55°	667.4	826.3	992.7	1048.7	1091.7	1108.6	1080.5	1067.4	1033.8	1028.2	1024.4
57.5°	656.2	687.9	888.0	959.0	1011.4	1009.5	992.7	968.4	940.3	934.7	932.8
60°	602.0	497.3	775.8	859.9	914.1	908.5	893.6	871.1	845.0	841.2	837.5
62.5°	545.9	360.8	648.7	744.0	820.7	818.8	805.7	772.1	753.4	744.0	736.5
65°	463.6	302.8	461.7	618.8	729.1	732.8	704.8	680.5	659.9	648.7	646.8
67.5°	353.3	246.8	312.2	516.0	641.2	637.5	602.0	590.7	564.6	559.0	547.7
70°	261.7	164.5	216.9	418.7	555.2	545.9	517.8	504.7	480.4	467.4	459.9
72.5°	216.9	132.7	158.9	325.3	467.4	456.1	431.8	416.9	396.3	385.1	377.6
75°	175.7	140.2	121.5	241.2	379.5	372.0	349.6	334.6	317.8	302.8	304.7
77.5°	129.0	130.9	97.2	177.6	301.0	289.8	276.7	258.0	250.5	235.5	235.5
80°	97.2	102.8	72.9	121.5	216.9	216.9	205.6	192.5	179.5	172.0	172.0
82.5°	65.4	65.4	54.2	76.6	147.7	142.1	134.6	130.9	123.4	119.6	119.6
85°	29.9	37.4	33.6	46.7	80.4	84.1	84.1	80.4	78.5	74.8	76.6
87.5°	9.3	16.8	20.6	26.2	41.1	43.0	44.9	44.9	44.9	46.7	46.7
90°	3.8	6.9	10.0	10.7	16.9	25.1	29.3	26.0	19.5	14.7	14.7
92.5°	15.4	41.6	67.9	74.4	104.6	144.8	164.9	144.5	103.8	73.2	70.3
95°	37.0	85.0	132.9	144.9	257.2	407.1	482.0	430.2	326.4	248.5	239.8
97.5°	63.9	106.2	148.5	159.1	346.5	596.3	721.3	688.5	622.9	573.7	556.9
100°	84.8	123.1	161.4	171.1	379.0	656.3	794.9	797.3	802.1	805.6	785.6
102.5°	102.5	138.3	174.0	183.0	393.9	675.1	815.7	857.5	941.1	1003.7	986.6
105°	132.5	162.8	193.2	200.8	405.0	677.3	813.4	907.0	1094.4	1234.9	1225.7
107.5°	163.4	191.6	219.8	226.9	407.0	647.1	767.1	897.8	1159.1	1355.1	1357.4
110°	184.1	209.7	235.3	241.6	404.0	620.4	728.6	874.7	1166.8	1385.9	1395.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	204.6	228.9	253.2	259.3	404.1	597.1	693.6	843.0	1142.0	1366.3	1381.0
115°	235.5	257.9	280.3	285.9	407.8	570.4	651.6	795.6	1083.6	1299.6	1320.0
117.5°	265.8	286.2	306.6	311.7	415.4	553.5	622.6	752.6	1012.6	1207.5	1230.2
120°	283.6	302.8	322.0	326.8	421.6	547.9	611.1	729.8	967.3	1145.5	1167.4
122.5°	300.9	320.2	339.6	344.4	430.3	544.9	602.2	709.2	923.1	1083.5	1105.2
125°	327.5	345.1	362.8	367.2	442.3	542.5	592.6	683.5	865.2	1001.4	1021.4
127.5°	349.1	366.9	384.6	389.1	454.3	541.1	584.5	662.5	818.5	935.5	952.4
130°	360.6	379.8	399.0	403.8	463.0	541.9	581.4	650.8	789.7	893.9	909.5
132.5°	372.6	391.7	411.0	415.8	470.1	542.5	578.8	640.9	765.2	858.4	872.4
135°	390.3	407.8	425.2	429.6	477.7	541.9	574.1	626.2	730.3	808.3	820.4
137.5°	408.5	425.8	443.1	447.4	489.3	545.3	573.3	617.4	705.4	771.4	781.2
140°	423.4	439.4	455.3	459.3	496.4	545.9	570.6	608.7	684.7	741.7	750.8
142.5°	435.0	449.7	464.5	468.1	502.3	547.8	570.6	604.0	670.8	720.9	728.9
145°	452.8	465.6	478.5	481.7	510.1	547.9	566.8	594.1	648.8	689.7	695.7
147.5°	470.4	483.0	495.5	498.6	521.3	551.7	566.8	588.3	631.2	663.5	668.4
150°	482.0	493.3	504.6	507.5	527.3	553.6	566.8	584.9	621.3	648.5	652.5
152.5°	494.0	502.6	511.1	513.2	531.1	554.9	566.8	582.3	613.3	636.5	639.6
155°	511.7	518.0	524.4	526.0	539.6	557.7	566.8	579.1	603.7	622.2	624.3
157.5°	524.7	530.9	537.1	538.7	548.0	560.5	566.8	576.3	595.5	609.9	611.3
160°	533.6	538.5	543.3	544.5	551.9	561.9	566.8	575.0	591.4	603.7	604.6
162.5°	542.5	546.1	549.7	550.6	556.1	563.3	566.8	573.7	587.6	598.0	598.8
165°	552.1	555.4	558.6	559.4	561.9	565.1	566.8	571.8	581.7	589.1	590.0
167.5°	561.0	562.5	564.1	564.5	566.5	569.2	570.6	573.9	580.5	585.3	585.7
170°	566.8	568.3	569.9	570.3	570.4	570.5	570.6	573.9	580.5	585.3	585.3
172.5°	569.9	570.3	570.5	570.6	570.6	570.6	570.6	573.3	578.4	582.2	581.9
175°	574.1	574.1	574.1	574.1	573.0	571.4	570.6	572.2	575.5	577.9	577.9
177.5°	574.1	574.1	574.1	574.1	573.2	571.9	571.4	572.7	575.2	577.2	576.8
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9
2.5°	2026.3	2020.7	2026.3	2022.6	2024.5	2018.9	2002.0	1996.4	2002.0	2007.7	2007.7
5°	2050.7	2046.9	2050.7	2050.7	2048.8	2045.0	2026.3	2022.6	2026.3	2028.2	2024.5
7.5°	2058.1	2052.5	2058.1	2054.4	2054.4	2050.7	2032.0	2028.2	2030.1	2035.7	2030.1
10°	2058.1	2052.5	2058.1	2056.3	2054.4	2050.7	2032.0	2024.5	2024.5	2030.1	2024.5
12.5°	2048.8	2045.0	2048.8	2045.0	2045.0	2041.3	2022.6	2015.1	2017.0	2018.9	2011.4
15°	2033.8	2028.2	2033.8	2030.1	2032.0	2026.3	2005.8	1998.3	1998.3	2002.0	1989.0
17.5°	2011.4	2003.9	2011.4	2009.5	2007.7	2003.9	1985.2	1977.7	1975.9	1977.7	1968.4
20°	1985.2	1979.6	1985.2	1983.4	1983.4	1975.9	1957.2	1947.8	1947.8	1947.8	1938.5
22.5°	1944.1	1938.5	1944.1	1947.8	1947.8	1946.0	1929.1	1916.1	1912.3	1912.3	1901.1
25°	1897.4	1891.8	1897.4	1897.4	1895.5	1897.4	1891.8	1884.3	1878.7	1873.1	1861.8
27.5°	1852.5	1848.8	1852.5	1848.8	1852.5	1846.9	1845.0	1843.1	1835.7	1830.1	1815.1
30°	1807.6	1803.9	1807.6	1803.9	1800.2	1796.4	1787.1	1783.3	1790.8	1787.1	1762.8
32.5°	1751.5	1747.8	1751.5	1751.5	1747.8	1747.8	1732.9	1727.2	1729.1	1740.3	1717.9
35°	1693.6	1688.0	1693.6	1691.7	1693.6	1688.0	1678.6	1676.8	1669.3	1682.4	1665.6
37.5°	1626.3	1620.7	1626.3	1626.3	1626.3	1630.0	1622.6	1616.9	1605.7	1622.6	1609.5
40°	1557.1	1549.6	1557.1	1555.3	1557.1	1560.9	1557.1	1553.4	1542.2	1555.3	1544.0
42.5°	1478.6	1476.7	1478.6	1480.5	1480.5	1488.0	1493.6	1486.1	1482.4	1473.0	1480.5
45°	1394.5	1390.7	1394.5	1398.2	1400.1	1403.8	1420.7	1420.7	1415.1	1400.1	1411.3
47.5°	1304.8	1295.4	1304.8	1316.0	1316.0	1321.6	1338.4	1351.5	1342.1	1323.5	1329.1
50°	1209.4	1211.3	1209.4	1216.9	1216.9	1237.5	1250.5	1263.6	1273.0	1250.5	1224.4
52.5°	1115.9	1114.2	1115.9	1121.6	1129.0	1138.4	1160.8	1173.9	1188.9	1175.8	1134.6
55°	1022.6	1026.3	1022.6	1024.4	1028.2	1033.8	1067.4	1080.5	1108.6	1091.7	1048.7
57.5°	929.1	923.5	929.1	932.8	934.7	940.3	968.4	992.7	1009.5	1011.4	959.0
60°	820.7	813.2	820.7	837.5	841.2	845.0	871.1	893.6	908.5	914.1	859.9
62.5°	725.3	712.2	725.3	736.5	744.0	753.4	772.1	805.7	818.8	820.7	744.0
65°	624.4	618.8	624.4	646.8	648.7	659.9	680.5	704.8	732.8	729.1	618.8
67.5°	532.8	532.8	532.8	547.7	559.0	564.6	590.7	602.0	637.5	641.2	516.0
70°	448.7	446.8	448.7	459.9	467.4	480.4	504.7	517.8	545.9	555.2	418.7
72.5°	368.3	366.4	368.3	377.6	385.1	396.3	416.9	431.8	456.1	467.4	325.3
75°	297.2	293.5	297.2	304.7	302.8	317.8	334.6	349.6	372.0	379.5	241.2
77.5°	228.1	228.1	228.1	235.5	235.5	250.5	258.0	276.7	289.8	301.0	177.6
80°	170.1	168.2	170.1	172.0	172.0	179.5	192.5	205.6	216.9	216.9	121.5
82.5°	119.6	115.9	119.6	119.6	119.6	123.4	130.9	134.6	142.1	147.7	76.6
85°	74.8	74.8	74.8	76.6	74.8	78.5	80.4	84.1	84.1	80.4	46.7
87.5°	48.6	46.7	48.6	46.7	46.7	44.9	44.9	44.9	43.0	41.1	26.2
90°	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.3	25.1	16.9	10.7
92.5°	58.6	47.0	58.6	70.3	73.2	103.8	144.5	164.9	144.8	104.6	74.4
95°	204.4	169.2	204.4	239.8	248.5	326.4	430.2	482.0	407.1	257.2	144.9
97.5°	489.8	422.7	489.8	556.9	573.7	622.9	688.5	721.3	596.3	346.5	159.1
100°	705.7	625.7	705.7	785.6	805.6	802.1	797.3	794.9	656.3	379.0	171.1
102.5°	918.1	849.6	918.1	986.6	1003.7	941.1	857.5	815.7	675.1	393.9	183.0
105°	1188.9	1152.0	1188.9	1225.7	1234.9	1094.4	907.0	813.4	677.3	405.0	200.8
107.5°	1366.3	1375.1	1366.3	1357.4	1355.1	1159.1	897.8	767.1	647.1	407.0	226.9
110°	1433.8	1472.3	1433.8	1395.5	1385.9	1166.8	874.7	728.6	620.4	404.0	241.6





TEST NUMBER: P934347

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1439.9	1498.8	1439.9	1381.0	1366.3	1142.0	843.0	693.6	597.1	404.1	259.3
115°	1401.7	1483.4	1401.7	1320.0	1299.6	1083.6	795.6	651.6	570.4	407.8	285.9
117.5°	1320.8	1411.4	1320.8	1230.2	1207.5	1012.6	752.6	622.6	553.5	415.4	311.7
120°	1255.5	1343.5	1255.5	1167.4	1145.5	967.3	729.8	611.1	547.9	421.6	326.8
122.5°	1192.0	1278.9	1192.0	1105.2	1083.5	923.1	709.2	602.2	544.9	430.3	344.4
125°	1101.4	1181.4	1101.4	1021.4	1001.4	865.2	683.5	592.6	542.5	442.3	367.2
127.5°	1019.9	1087.3	1019.9	952.4	935.5	818.5	662.5	584.5	541.1	454.3	389.1
130°	971.8	1034.2	971.8	909.5	893.9	789.7	650.8	581.4	541.9	463.0	403.8
132.5°	928.3	984.1	928.3	872.4	858.4	765.2	640.9	578.8	542.5	470.1	415.8
135°	868.5	916.7	868.5	820.4	808.3	730.3	626.2	574.1	541.9	477.7	429.6
137.5°	820.7	860.0	820.7	781.2	771.4	705.4	617.4	573.3	545.3	489.3	447.4
140°	787.7	824.5	787.7	750.8	741.7	684.7	608.7	570.6	545.9	496.4	459.3
142.5°	760.5	792.2	760.5	728.9	720.9	670.8	604.0	570.6	547.8	502.3	468.1
145°	719.7	743.7	719.7	695.7	689.7	648.8	594.1	566.8	547.9	510.1	481.7
147.5°	688.3	708.2	688.3	668.4	663.5	631.2	588.3	566.8	551.7	521.3	498.6
150°	668.6	684.7	668.6	652.5	648.5	621.3	584.9	566.8	553.6	527.3	507.5
152.5°	651.8	663.9	651.8	639.6	636.5	613.3	582.3	566.8	554.9	531.1	513.2
155°	632.3	640.4	632.3	624.3	622.2	603.7	579.1	566.8	557.7	539.6	526.0
157.5°	617.0	622.6	617.0	611.3	609.9	595.5	576.3	566.8	560.5	548.0	538.7
160°	607.8	611.1	607.8	604.6	603.7	591.4	575.0	566.8	561.9	551.9	544.5
162.5°	601.9	604.9	601.9	598.8	598.0	587.6	573.7	566.8	563.3	556.1	550.6
165°	593.2	596.4	593.2	590.0	589.1	581.7	571.8	566.8	565.1	561.9	559.4
167.5°	587.0	588.4	587.0	585.7	585.3	580.5	573.9	570.6	569.2	566.5	564.5
170°	585.3	585.3	585.3	585.3	585.3	580.5	573.9	570.6	570.5	570.4	570.3
172.5°	580.7	579.5	580.7	581.9	582.2	578.4	573.3	570.6	570.6	570.6	570.6
175°	577.9	577.9	577.9	577.9	577.9	575.5	572.2	570.6	571.4	573.0	574.1
177.5°	575.5	574.1	575.5	576.8	577.2	575.2	572.7	571.4	571.9	573.2	574.1
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



TEST NUMBER: P934347

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9
2.5°	2003.9	1992.7	1992.7	1974.0	1966.5	1960.9	1951.6	1923.5	1916.1	1908.6	1919.8
5°	2020.7	2000.2	1985.2	1951.6	1923.5	1912.3	1876.8	1809.5	1764.6	1731.0	1712.3
7.5°	2024.5	1998.3	1970.3	1917.9	1850.6	1820.7	1712.3	1588.9	1555.3	1525.3	1506.7
10°	2020.7	1990.8	1951.6	1873.1	1714.2	1661.8	1553.4	1473.0	1452.4	1446.8	1452.4
12.5°	2007.7	1979.6	1925.4	1794.5	1572.1	1536.6	1473.0	1426.3	1422.5	1431.9	1482.4
15°	1985.2	1959.1	1895.5	1689.9	1493.6	1467.4	1422.5	1405.7	1426.3	1491.7	1643.1
17.5°	1962.8	1932.9	1854.4	1587.0	1433.7	1415.1	1383.3	1416.9	1532.8	1620.7	1671.2
20°	1932.9	1897.4	1807.6	1512.3	1390.7	1373.9	1359.0	1510.4	1598.3	1630.0	1658.1
22.5°	1897.4	1860.0	1744.1	1459.9	1345.9	1332.8	1342.1	1562.7	1598.3	1620.7	1645.0
25°	1850.6	1818.8	1669.3	1418.8	1310.4	1295.4	1330.9	1557.1	1577.7	1583.3	1631.9
27.5°	1807.6	1766.5	1590.8	1381.4	1267.4	1261.8	1340.3	1532.8	1547.8	1553.4	1605.7
30°	1755.3	1693.6	1502.9	1342.1	1222.5	1220.6	1342.1	1502.9	1499.2	1514.1	1566.5
32.5°	1701.1	1585.2	1403.8	1293.5	1179.5	1177.6	1329.1	1458.0	1454.3	1474.9	1514.1
35°	1650.6	1501.0	1269.2	1237.5	1125.3	1127.2	1297.3	1405.7	1407.6	1426.3	1450.6
37.5°	1598.3	1428.1	1121.6	1175.8	1073.0	1073.0	1254.3	1357.1	1353.4	1359.0	1392.6
40°	1536.6	1314.1	990.8	1095.5	1024.4	1018.8	1201.9	1304.8	1291.7	1289.8	1336.5
42.5°	1471.1	1188.9	893.6	988.9	968.4	960.9	1138.4	1241.2	1216.9	1222.5	1282.3
45°	1400.1	1155.2	818.8	835.6	910.4	904.8	1069.3	1168.3	1151.5	1166.4	1228.1
47.5°	1329.1	1088.0	794.5	693.6	848.7	846.8	992.7	1097.3	1088.0	1103.0	1168.3
50°	1231.8	1013.2	792.6	594.5	779.5	787.0	901.1	1028.2	1028.2	1041.3	1110.4
52.5°	1106.7	921.6	719.7	538.4	699.2	721.6	820.7	968.4	972.1	985.2	1046.9
55°	992.7	826.3	667.4	495.4	603.8	652.4	742.2	906.7	914.1	927.2	983.3
57.5°	888.0	687.9	656.2	444.9	516.0	562.7	673.0	846.8	850.6	861.8	916.0
60°	775.8	497.3	602.0	390.7	439.3	474.8	609.4	775.8	788.9	796.4	843.1
62.5°	648.7	360.8	545.9	353.3	401.9	409.4	557.1	708.5	725.3	730.9	759.0
65°	461.7	302.8	463.6	321.5	362.7	364.5	501.0	639.3	654.3	663.6	684.2
67.5°	312.2	246.8	353.3	291.6	332.8	334.6	446.8	559.0	579.5	587.0	600.1
70°	216.9	164.5	261.7	259.8	299.1	302.8	388.8	486.0	504.7	510.3	517.8
72.5°	158.9	132.7	216.9	233.7	263.6	267.3	329.0	403.8	422.5	428.1	431.8
75°	121.5	140.2	175.7	203.8	224.3	226.2	269.2	329.0	342.1	345.8	347.7
77.5°	97.2	130.9	129.0	164.5	183.2	179.5	211.2	254.2	265.5	265.5	265.5
80°	72.9	102.8	97.2	117.8	134.6	130.9	151.4	181.3	185.1	188.8	186.9
82.5°	54.2	65.4	65.4	74.8	89.7	86.0	100.9	117.8	117.8	117.8	121.5
85°	33.6	37.4	29.9	39.3	50.5	48.6	56.1	63.6	65.4	65.4	61.7
87.5°	20.6	16.8	9.3	15.0	22.4	22.4	26.2	28.0	26.2	26.2	26.2
90°	10.0	6.9	3.8	6.9	10.0	10.7	16.9	25.1	29.3	26.0	19.5
92.5°	67.9	41.6	15.4	41.6	67.9	74.4	104.6	144.8	164.9	144.5	103.8
95°	132.9	85.0	37.0	85.0	132.9	144.9	257.2	407.1	482.0	430.2	326.4
97.5°	148.5	106.2	63.9	106.2	148.5	159.1	346.5	596.3	721.3	688.5	622.9
100°	161.4	123.1	84.8	123.1	161.4	171.1	379.0	656.3	794.9	797.3	802.1
102.5°	174.0	138.3	102.5	138.3	174.0	183.0	393.9	675.1	815.7	857.5	941.1
105°	193.2	162.8	132.5	162.8	193.2	200.8	405.0	677.3	813.4	907.0	1094.4
107.5°	219.8	191.6	163.4	191.6	219.8	226.9	407.0	647.1	767.1	897.8	1159.1
110°	235.3	209.7	184.1	209.7	235.3	241.6	404.0	620.4	728.6	874.7	1166.8



TEST NUMBER: P934347

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	253.2	228.9	204.6	228.9	253.2	259.3	404.1	597.1	693.6	843.0	1142.0
115°	280.3	257.9	235.5	257.9	280.3	285.9	407.8	570.4	651.6	795.6	1083.6
117.5°	306.6	286.2	265.8	286.2	306.6	311.7	415.4	553.5	622.6	752.6	1012.6
120°	322.0	302.8	283.6	302.8	322.0	326.8	421.6	547.9	611.1	729.8	967.3
122.5°	339.6	320.2	300.9	320.2	339.6	344.4	430.3	544.9	602.2	709.2	923.1
125°	362.8	345.1	327.5	345.1	362.8	367.2	442.3	542.5	592.6	683.5	865.2
127.5°	384.6	366.9	349.1	366.9	384.6	389.1	454.3	541.1	584.5	662.5	818.5
130°	399.0	379.8	360.6	379.8	399.0	403.8	463.0	541.9	581.4	650.8	789.7
132.5°	411.0	391.7	372.6	391.7	411.0	415.8	470.1	542.5	578.8	640.9	765.2
135°	425.2	407.8	390.3	407.8	425.2	429.6	477.7	541.9	574.1	626.2	730.3
137.5°	443.1	425.8	408.5	425.8	443.1	447.4	489.3	545.3	573.3	617.4	705.4
140°	455.3	439.4	423.4	439.4	455.3	459.3	496.4	545.9	570.6	608.7	684.7
142.5°	464.5	449.7	435.0	449.7	464.5	468.1	502.3	547.8	570.6	604.0	670.8
145°	478.5	465.6	452.8	465.6	478.5	481.7	510.1	547.9	566.8	594.1	648.8
147.5°	495.5	483.0	470.4	483.0	495.5	498.6	521.3	551.7	566.8	588.3	631.2
150°	504.6	493.3	482.0	493.3	504.6	507.5	527.3	553.6	566.8	584.9	621.3
152.5°	511.1	502.6	494.0	502.6	511.1	513.2	531.1	554.9	566.8	582.3	613.3
155°	524.4	518.0	511.7	518.0	524.4	526.0	539.6	557.7	566.8	579.1	603.7
157.5°	537.1	530.9	524.7	530.9	537.1	538.7	548.0	560.5	566.8	576.3	595.5
160°	543.3	538.5	533.6	538.5	543.3	544.5	551.9	561.9	566.8	575.0	591.4
162.5°	549.7	546.1	542.5	546.1	549.7	550.6	556.1	563.3	566.8	573.7	587.6
165°	558.6	555.4	552.1	555.4	558.6	559.4	561.9	565.1	566.8	571.8	581.7
167.5°	564.1	562.5	561.0	562.5	564.1	564.5	566.5	569.2	570.6	573.9	580.5
170°	569.9	568.3	566.8	568.3	569.9	570.3	570.4	570.5	570.6	573.9	580.5
172.5°	570.5	570.3	569.9	570.3	570.5	570.6	570.6	570.6	570.6	573.3	578.4
175°	574.1	574.1	574.1	574.1	574.1	574.1	573.0	571.4	570.6	572.2	575.5
177.5°	574.1	574.1	574.1	574.1	574.1	574.1	573.2	571.9	571.4	572.7	575.2
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



TEST NUMBER: P934347

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9
2.5°	1906.7	1901.1	1908.6	1888.0	1908.6	1901.1	1906.7	1919.8	1908.6	1916.1	1923.5
5°	1673.0	1663.7	1633.8	1609.5	1633.8	1663.7	1673.0	1712.3	1731.0	1764.6	1809.5
7.5°	1495.4	1488.0	1480.5	1465.5	1480.5	1488.0	1495.4	1506.7	1525.3	1555.3	1588.9
10°	1456.2	1458.0	1469.3	1467.4	1469.3	1458.0	1456.2	1452.4	1446.8	1452.4	1473.0
12.5°	1557.1	1574.0	1635.6	1631.9	1635.6	1574.0	1557.1	1482.4	1431.9	1422.5	1426.3
15°	1673.0	1678.6	1691.7	1693.6	1691.7	1678.6	1673.0	1643.1	1491.7	1426.3	1405.7
17.5°	1684.2	1686.1	1695.5	1695.5	1695.5	1686.1	1684.2	1671.2	1620.7	1532.8	1416.9
20°	1674.9	1678.6	1697.3	1701.1	1697.3	1678.6	1674.9	1658.1	1630.0	1598.3	1510.4
22.5°	1671.2	1678.6	1693.6	1691.7	1693.6	1678.6	1671.2	1645.0	1620.7	1598.3	1562.7
25°	1652.5	1652.5	1654.3	1656.2	1654.3	1652.5	1652.5	1631.9	1583.3	1577.7	1557.1
27.5°	1613.2	1616.9	1628.2	1626.3	1628.2	1616.9	1613.2	1605.7	1553.4	1547.8	1532.8
30°	1577.7	1574.0	1564.6	1557.1	1564.6	1574.0	1577.7	1566.5	1514.1	1499.2	1502.9
32.5°	1517.9	1508.5	1499.2	1493.6	1499.2	1508.5	1517.9	1514.1	1474.9	1454.3	1458.0
35°	1446.8	1448.7	1446.8	1441.2	1446.8	1448.7	1446.8	1450.6	1426.3	1407.6	1405.7
37.5°	1396.4	1400.1	1398.2	1390.7	1398.2	1400.1	1396.4	1392.6	1359.0	1353.4	1357.1
40°	1344.0	1345.9	1344.0	1338.4	1344.0	1345.9	1344.0	1336.5	1289.8	1291.7	1304.8
42.5°	1293.5	1291.7	1286.1	1282.3	1286.1	1291.7	1293.5	1282.3	1222.5	1216.9	1241.2
45°	1235.6	1237.5	1226.2	1220.6	1226.2	1237.5	1235.6	1228.1	1166.4	1151.5	1168.3
47.5°	1177.6	1177.6	1168.3	1162.7	1168.3	1177.6	1177.6	1168.3	1103.0	1088.0	1097.3
50°	1115.9	1114.2	1101.1	1099.2	1101.1	1114.2	1115.9	1110.4	1041.3	1028.2	1028.2
52.5°	1045.0	1045.0	1046.9	1050.6	1046.9	1045.0	1045.0	1046.9	985.2	972.1	968.4
55°	983.3	985.2	998.3	1002.0	998.3	985.2	983.3	983.3	927.2	914.1	906.7
57.5°	919.8	919.8	929.1	929.1	929.1	919.8	919.8	916.0	861.8	850.6	846.8
60°	846.8	850.6	858.1	856.2	858.1	850.6	846.8	843.1	796.4	788.9	775.8
62.5°	770.2	773.9	775.8	772.1	775.8	773.9	770.2	759.0	730.9	725.3	708.5
65°	689.8	693.6	695.4	691.7	695.4	693.6	689.8	684.2	663.6	654.3	639.3
67.5°	607.6	605.7	603.8	611.3	603.8	605.7	607.6	600.1	587.0	579.5	559.0
70°	523.4	523.4	521.6	525.3	521.6	523.4	523.4	517.8	510.3	504.7	486.0
72.5°	433.7	431.8	439.3	433.7	439.3	431.8	433.7	431.8	428.1	422.5	403.8
75°	345.8	349.6	345.8	351.4	345.8	349.6	345.8	347.7	345.8	342.1	329.0
77.5°	263.6	267.3	263.6	263.6	263.6	267.3	263.6	265.5	265.5	265.5	254.2
80°	186.9	185.1	185.1	183.2	185.1	185.1	186.9	186.9	188.8	185.1	181.3
82.5°	119.6	117.8	117.8	121.5	117.8	117.8	119.6	121.5	117.8	117.8	117.8
85°	65.4	67.3	63.6	63.6	63.6	67.3	65.4	61.7	65.4	65.4	63.6
87.5°	24.3	22.4	22.4	22.4	22.4	22.4	24.3	26.2	26.2	26.2	28.0
90°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.3	25.1
92.5°	73.2	70.3	58.6	47.0	58.6	70.3	73.2	103.8	144.5	164.9	144.8
95°	248.5	239.8	204.4	169.2	204.4	239.8	248.5	326.4	430.2	482.0	407.1
97.5°	573.7	556.9	489.8	422.7	489.8	556.9	573.7	622.9	688.5	721.3	596.3
100°	805.6	785.6	705.7	625.7	705.7	785.6	805.6	802.1	797.3	794.9	656.3
102.5°	1003.7	986.6	918.1	849.6	918.1	986.6	1003.7	941.1	857.5	815.7	675.1
105°	1234.9	1225.7	1188.9	1152.0	1188.9	1225.7	1234.9	1094.4	907.0	813.4	677.3
107.5°	1355.1	1357.4	1366.3	1375.1	1366.3	1357.4	1355.1	1159.1	897.8	767.1	647.1
110°	1385.9	1395.5	1433.8	1472.3	1433.8	1395.5	1385.9	1166.8	874.7	728.6	620.4



TEST NUMBER: P934347

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1366.3	1381.0	1439.9	1498.8	1439.9	1381.0	1366.3	1142.0	843.0	693.6	597.1
115°	1299.6	1320.0	1401.7	1483.4	1401.7	1320.0	1299.6	1083.6	795.6	651.6	570.4
117.5°	1207.5	1230.2	1320.8	1411.4	1320.8	1230.2	1207.5	1012.6	752.6	622.6	553.5
120°	1145.5	1167.4	1255.5	1343.5	1255.5	1167.4	1145.5	967.3	729.8	611.1	547.9
122.5°	1083.5	1105.2	1192.0	1278.9	1192.0	1105.2	1083.5	923.1	709.2	602.2	544.9
125°	1001.4	1021.4	1101.4	1181.4	1101.4	1021.4	1001.4	865.2	683.5	592.6	542.5
127.5°	935.5	952.4	1019.9	1087.3	1019.9	952.4	935.5	818.5	662.5	584.5	541.1
130°	893.9	909.5	971.8	1034.2	971.8	909.5	893.9	789.7	650.8	581.4	541.9
132.5°	858.4	872.4	928.3	984.1	928.3	872.4	858.4	765.2	640.9	578.8	542.5
135°	808.3	820.4	868.5	916.7	868.5	820.4	808.3	730.3	626.2	574.1	541.9
137.5°	771.4	781.2	820.7	860.0	820.7	781.2	771.4	705.4	617.4	573.3	545.3
140°	741.7	750.8	787.7	824.5	787.7	750.8	741.7	684.7	608.7	570.6	545.9
142.5°	720.9	728.9	760.5	792.2	760.5	728.9	720.9	670.8	604.0	570.6	547.8
145°	689.7	695.7	719.7	743.7	719.7	695.7	689.7	648.8	594.1	566.8	547.9
147.5°	663.5	668.4	688.3	708.2	688.3	668.4	663.5	631.2	588.3	566.8	551.7
150°	648.5	652.5	668.6	684.7	668.6	652.5	648.5	621.3	584.9	566.8	553.6
152.5°	636.5	639.6	651.8	663.9	651.8	639.6	636.5	613.3	582.3	566.8	554.9
155°	622.2	624.3	632.3	640.4	632.3	624.3	622.2	603.7	579.1	566.8	557.7
157.5°	609.9	611.3	617.0	622.6	617.0	611.3	609.9	595.5	576.3	566.8	560.5
160°	603.7	604.6	607.8	611.1	607.8	604.6	603.7	591.4	575.0	566.8	561.9
162.5°	598.0	598.8	601.9	604.9	601.9	598.8	598.0	587.6	573.7	566.8	563.3
165°	589.1	590.0	593.2	596.4	593.2	590.0	589.1	581.7	571.8	566.8	565.1
167.5°	585.3	585.7	587.0	588.4	587.0	585.7	585.3	580.5	573.9	570.6	569.2
170°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	580.5	573.9	570.6	570.5
172.5°	582.2	581.9	580.7	579.5	580.7	581.9	582.2	578.4	573.3	570.6	570.6
175°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	575.5	572.2	570.6	571.4
177.5°	577.2	576.8	575.5	574.1	575.5	576.8	577.2	575.2	572.7	571.4	571.9
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1975.9	1975.9	1975.9	1975.9	1975.9
2.5°	1951.6	1960.9	1966.5	1974.0	1992.7
5°	1876.8	1912.3	1923.5	1951.6	1985.2
7.5°	1712.3	1820.7	1850.6	1917.9	1970.3
10°	1553.4	1661.8	1714.2	1873.1	1951.6
12.5°	1473.0	1536.6	1572.1	1794.5	1925.4
15°	1422.5	1467.4	1493.6	1689.9	1895.5
17.5°	1383.3	1415.1	1433.7	1587.0	1854.4
20°	1359.0	1373.9	1390.7	1512.3	1807.6
22.5°	1342.1	1332.8	1345.9	1459.9	1744.1
25°	1330.9	1295.4	1310.4	1418.8	1669.3
27.5°	1340.3	1261.8	1267.4	1381.4	1590.8
30°	1342.1	1220.6	1222.5	1342.1	1502.9
32.5°	1329.1	1177.6	1179.5	1293.5	1403.8
35°	1297.3	1127.2	1125.3	1237.5	1269.2
37.5°	1254.3	1073.0	1073.0	1175.8	1121.6
40°	1201.9	1018.8	1024.4	1095.5	990.8
42.5°	1138.4	960.9	968.4	988.9	893.6
45°	1069.3	904.8	910.4	835.6	818.8
47.5°	992.7	846.8	848.7	693.6	794.5
50°	901.1	787.0	779.5	594.5	792.6
52.5°	820.7	721.6	699.2	538.4	719.7
55°	742.2	652.4	603.8	495.4	667.4
57.5°	673.0	562.7	516.0	444.9	656.2
60°	609.4	474.8	439.3	390.7	602.0
62.5°	557.1	409.4	401.9	353.3	545.9
65°	501.0	364.5	362.7	321.5	463.6
67.5°	446.8	334.6	332.8	291.6	353.3
70°	388.8	302.8	299.1	259.8	261.7
72.5°	329.0	267.3	263.6	233.7	216.9
75°	269.2	226.2	224.3	203.8	175.7
77.5°	211.2	179.5	183.2	164.5	129.0
80°	151.4	130.9	134.6	117.8	97.2
82.5°	100.9	86.0	89.7	74.8	65.4
85°	56.1	48.6	50.5	39.3	29.9
87.5°	26.2	22.4	22.4	15.0	9.3
90°	16.9	10.7	10.0	6.9	3.8
92.5°	104.6	74.4	67.9	41.6	15.4
95°	257.2	144.9	132.9	85.0	37.0
97.5°	346.5	159.1	148.5	106.2	63.9
100°	379.0	171.1	161.4	123.1	84.8
102.5°	393.9	183.0	174.0	138.3	102.5
105°	405.0	200.8	193.2	162.8	132.5
107.5°	407.0	226.9	219.8	191.6	163.4
110°	404.0	241.6	235.3	209.7	184.1



TEST NUMBER: P934347

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	404.1	259.3	253.2	228.9	204.6
115°	407.8	285.9	280.3	257.9	235.5
117.5°	415.4	311.7	306.6	286.2	265.8
120°	421.6	326.8	322.0	302.8	283.6
122.5°	430.3	344.4	339.6	320.2	300.9
125°	442.3	367.2	362.8	345.1	327.5
127.5°	454.3	389.1	384.6	366.9	349.1
130°	463.0	403.8	399.0	379.8	360.6
132.5°	470.1	415.8	411.0	391.7	372.6
135°	477.7	429.6	425.2	407.8	390.3
137.5°	489.3	447.4	443.1	425.8	408.5
140°	496.4	459.3	455.3	439.4	423.4
142.5°	502.3	468.1	464.5	449.7	435.0
145°	510.1	481.7	478.5	465.6	452.8
147.5°	521.3	498.6	495.5	483.0	470.4
150°	527.3	507.5	504.6	493.3	482.0
152.5°	531.1	513.2	511.1	502.6	494.0
155°	539.6	526.0	524.4	518.0	511.7
157.5°	548.0	538.7	537.1	530.9	524.7
160°	551.9	544.5	543.3	538.5	533.6
162.5°	556.1	550.6	549.7	546.1	542.5
165°	561.9	559.4	558.6	555.4	552.1
167.5°	566.5	564.5	564.1	562.5	561.0
170°	570.4	570.3	569.9	568.3	566.8
172.5°	570.6	570.6	570.5	570.3	569.9
175°	573.0	574.1	574.1	574.1	574.1
177.5°	573.2	574.1	574.1	574.1	574.1
180°	574.1	574.1	574.1	574.1	574.1



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.21	14.14	14.09	15.05	16.20	16.04	16.98	16.93	17.89	19.04
	3H	13.69	14.53	14.59	15.45	16.63	17.40	18.24	18.30	19.16	20.33
	4H	13.88	14.68	14.80	15.60	16.79	17.85	18.64	18.76	19.56	20.75
	6H	14.01	14.74	14.93	15.67	16.87	18.14	18.87	19.06	19.80	21.00
	8H	14.01	14.71	14.94	15.65	16.85	18.22	18.91	19.15	19.86	21.06
	12H	13.98	14.65	14.92	15.59	16.81	18.26	18.92	19.20	19.86	21.09
4H	2H	14.25	15.05	15.17	15.97	17.16	16.46	17.26	17.38	18.18	19.37
	3H	15.29	15.95	16.22	16.90	18.10	17.98	18.64	18.91	19.59	20.80
	4H	15.56	16.17	16.51	17.12	18.34	18.51	19.12	19.45	20.06	21.29
	6H	15.69	16.21	16.65	17.19	18.41	18.88	19.40	19.84	20.37	21.60
	8H	15.70	16.19	16.66	17.15	18.39	18.99	19.48	19.95	20.44	21.69
	12H	15.67	16.11	16.65	17.09	18.34	19.05	19.49	20.03	20.47	21.72
8H	4H	16.03	16.51	16.98	17.48	18.72	18.64	19.13	19.60	20.09	21.33
	6H	16.29	16.69	17.27	17.70	18.94	19.08	19.49	20.07	20.49	21.73
	8H	16.33	16.69	17.32	17.68	18.94	19.24	19.59	20.23	20.59	21.85
	12H	16.32	16.63	17.32	17.62	18.93	19.34	19.65	20.33	20.64	21.95
12H	4H	16.04	16.47	17.01	17.46	18.70	18.61	19.05	19.58	20.03	21.28
	6H	16.35	16.71	17.34	17.70	18.96	19.08	19.44	20.07	20.43	21.69
	8H	16.42	16.74	17.42	17.72	19.03	19.25	19.56	20.24	20.55	21.85