

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: P933827

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933827
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-92765-1D-UNV-STD-W-12-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

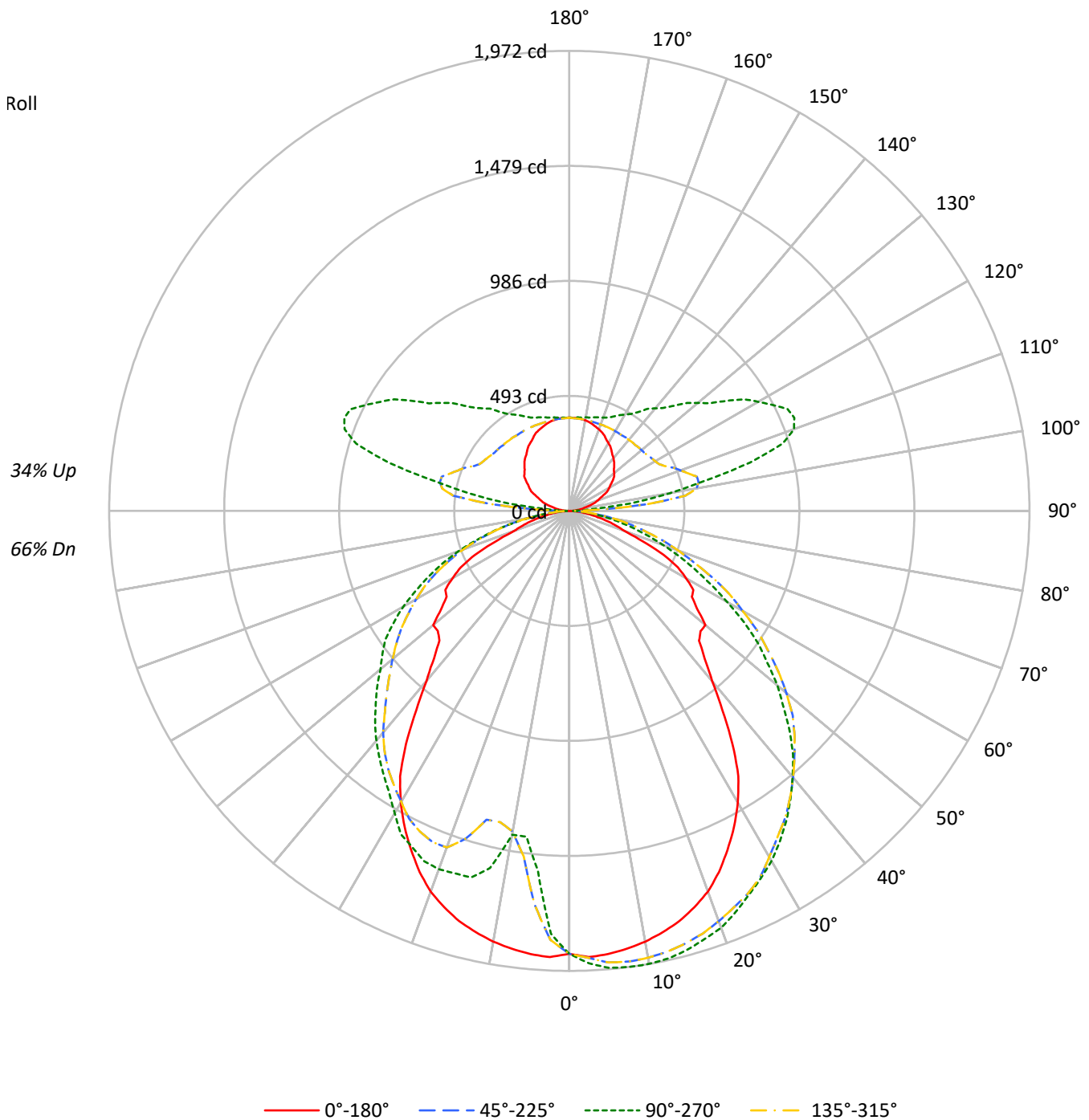
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7514.1 lumens
Efficiency: N/A
Efficacy: 113.8 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 (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°	5871	5871	5871	5871
5°	5918	5927	5918	4660
10°	5880	5838	5880	4174
15°	5818	5712	5818	4770
20°	5699	5562	5699	4780
25°	5452	5344	5452	4678
30°	5132	5162	5132	4456
35°	4578	4933	4578	4211
40°	3816	4662	3816	4027
45°	3412	4346	3412	3814
50°	3628	3969	3628	3601
55°	3417	3563	3417	3478
60°	3527	3026	3527	3186
65°	3203	2501	3203	2796
70°	2224	1994	2224	2344
75°	1956	1474	1956	1764
80°	1589	975	1589	1061
85°	930	516	930	439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5227 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	2.3
10°-20°	486.5	6.5
20°-30°	752.1	10.0
30°-40°	897.8	11.9
40°-50°	903.1	12.0
50°-60°	785.8	10.5
60°-70°	557.1	7.4
70°-80°	294.8	3.9
80°-90°	74.9	1.0
90°-100°	194.8	2.6
100°-110°	512.1	6.8
110°-120°	531.0	7.1
120°-130°	426.0	5.7
130°-140°	334.2	4.4
140°-150°	256.5	3.4
150°-160°	184.7	2.5
160°-170°	113.0	1.5
170°-180°	38.2	0.5
0°-30°	1409.9	18.8
0°-40°	2307.8	30.7
0°-60°	3996.6	53.2
0°-90°	4923.4	65.5
90°-120°	1238.0	16.5
90°-150°	2254.7	30.0
90°-180°	2591.0	34.5
0°-180°	7514.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1898	1898	1898	1898	1898	
5°	1907	1966	1907	1546	1907	181
15°	1821	1949	1821	1627	1821	512
25°	1604	1818	1604	1591	1604	736
35°	1219	1622	1219	1385	1219	754
45°	787	1336	787	1173	787	630
55°	641	986	641	963	641	589
65°	445	594	445	664	445	426
75°	169	282	169	338	169	177
85°	29	72	29	61	29	39
90°	3	10	3	10	3	3
95°	26	118	26	118	26	29
105°	92	802	92	802	92	98
115°	164	1033	164	1033	164	162
125°	228	822	228	822	228	202
135°	272	638	272	638	272	210
145°	315	518	315	518	315	197
155°	356	446	356	446	356	164
165°	384	415	384	415	384	108
175°	400	402	400	402	400	38
180°	400	400	400	400	400	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1914.4	1914.4	1925.2	1928.8	1928.8	1923.4	1918.1	1923.4	1939.6	1944.9	1943.1
5°	1907.3	1921.6	1941.4	1944.9	1948.6	1946.8	1943.1	1946.8	1964.7	1968.3	1970.1
7.5°	1892.9	1919.8	1944.9	1950.4	1955.7	1950.4	1948.6	1952.2	1970.1	1973.7	1973.7
10°	1874.9	1912.6	1941.4	1944.9	1950.4	1944.9	1944.9	1952.2	1970.1	1973.7	1975.5
12.5°	1849.8	1901.9	1928.8	1932.4	1939.6	1937.8	1936.0	1943.1	1961.2	1964.7	1964.7
15°	1821.0	1882.1	1907.3	1910.8	1923.4	1919.8	1919.8	1927.0	1946.8	1952.2	1950.4
17.5°	1781.6	1857.0	1885.7	1891.1	1900.1	1898.2	1900.1	1907.3	1925.2	1928.8	1930.6
20°	1736.7	1822.8	1857.0	1862.4	1871.4	1871.4	1871.4	1880.3	1898.2	1905.5	1905.5
22.5°	1675.6	1786.9	1822.8	1826.5	1837.2	1837.2	1840.9	1853.3	1869.5	1871.4	1871.4
25°	1603.8	1747.4	1777.9	1788.7	1799.5	1804.9	1810.3	1817.5	1822.8	1821.0	1822.8
27.5°	1528.3	1697.1	1736.7	1743.8	1758.2	1763.5	1770.8	1772.6	1774.4	1779.7	1776.1
30°	1443.9	1627.1	1686.3	1693.6	1716.9	1720.5	1713.3	1716.9	1725.9	1729.5	1733.0
32.5°	1348.7	1522.9	1634.3	1650.5	1672.0	1661.3	1659.4	1664.8	1679.2	1679.2	1682.8
35°	1219.4	1442.1	1585.8	1600.2	1616.4	1603.8	1610.9	1612.7	1621.7	1627.1	1625.3
37.5°	1077.6	1372.0	1535.5	1546.3	1558.9	1542.7	1553.4	1558.9	1566.0	1562.4	1562.4
40°	951.8	1262.5	1476.2	1483.4	1494.2	1481.7	1492.4	1496.0	1499.6	1496.0	1494.2
42.5°	858.4	1142.2	1413.4	1422.4	1415.2	1424.2	1427.7	1435.0	1429.5	1422.4	1422.4
45°	786.6	1109.9	1345.2	1355.9	1345.2	1359.5	1364.9	1364.9	1348.7	1345.2	1343.3
47.5°	763.3	1045.3	1276.9	1276.9	1271.5	1289.5	1298.4	1285.9	1269.8	1264.3	1264.3
50°	761.5	973.4	1183.5	1176.3	1201.5	1223.0	1214.1	1201.5	1188.9	1169.2	1169.2
52.5°	691.4	885.4	1063.2	1090.2	1129.6	1142.2	1127.8	1115.2	1093.7	1084.7	1077.6
55°	641.2	793.8	953.6	1007.5	1048.8	1065.0	1038.0	1025.4	993.1	987.8	984.2
57.5°	630.4	660.9	853.1	921.3	971.6	969.8	953.6	930.3	903.3	898.0	896.2
60°	578.3	477.7	745.3	826.1	878.2	872.8	858.4	836.9	811.7	808.2	804.6
62.5°	524.4	346.6	623.1	714.8	788.4	786.6	774.1	741.7	723.7	714.8	707.6
65°	445.4	290.9	443.6	594.5	700.4	704.0	677.1	653.8	633.9	623.1	621.4
67.5°	339.5	237.1	299.9	495.7	616.0	612.4	578.3	567.5	542.4	537.0	526.2
70°	251.5	158.1	208.3	402.3	533.4	524.4	497.5	484.9	461.6	449.0	441.8
72.5°	208.3	127.5	152.6	312.5	449.0	438.2	414.9	400.5	380.7	370.0	362.8
75°	168.8	134.7	116.8	231.6	364.5	357.4	335.8	321.4	305.3	290.9	292.7
77.5°	123.9	125.7	93.4	170.6	289.1	278.4	265.8	247.9	240.7	226.3	226.3
80°	93.4	98.8	70.1	116.8	208.3	208.3	197.5	185.0	172.4	165.2	165.2
82.5°	62.8	62.8	52.0	73.6	141.8	136.5	129.3	125.7	118.5	115.0	115.0
85°	28.7	35.9	32.3	44.9	77.2	80.8	80.8	77.2	75.4	71.9	73.6
87.5°	9.0	16.2	19.7	25.2	39.5	41.3	43.1	43.1	43.1	44.9	44.9
90°	2.7	4.8	7.0	7.5	11.8	17.5	20.4	18.1	13.6	10.2	10.2
92.5°	10.7	28.9	47.2	51.8	72.7	100.8	114.8	100.6	72.2	51.0	48.9
95°	25.7	59.1	92.5	100.9	179.1	283.4	335.5	299.4	227.2	173.0	166.8
97.5°	44.5	74.0	103.5	110.8	241.2	415.2	502.1	479.2	433.6	399.4	387.7
100°	59.0	85.7	112.4	119.1	263.9	456.8	553.3	555.0	558.3	560.8	546.9
102.5°	71.3	96.2	121.1	127.4	274.2	470.0	567.8	596.9	655.0	698.7	686.7
105°	92.3	113.4	134.4	139.7	281.9	471.4	566.2	631.4	761.8	859.6	853.2
107.5°	113.7	133.4	153.1	158.0	283.3	450.4	534.0	624.9	806.8	943.3	944.8
110°	128.2	145.9	163.7	168.2	281.2	431.8	507.2	608.9	812.2	964.7	971.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	142.5	159.3	176.3	180.5	281.3	415.6	482.8	586.9	795.0	951.1	961.4
115°	163.9	179.5	195.1	199.1	283.9	396.9	453.5	553.8	754.3	904.7	918.9
117.5°	185.0	199.2	213.4	217.0	289.1	385.3	433.5	524.0	704.9	840.6	856.4
120°	197.4	210.7	224.1	227.4	293.4	381.3	425.3	508.0	673.4	797.4	812.7
122.5°	209.5	223.0	236.4	239.8	299.6	379.3	419.2	493.6	642.5	754.2	769.3
125°	228.0	240.3	252.6	255.6	308.0	377.7	412.5	475.7	602.2	697.0	711.0
127.5°	243.0	255.4	267.8	270.9	316.3	376.7	406.9	461.1	569.8	651.2	662.9
130°	251.0	264.4	277.8	281.1	322.3	377.2	404.7	453.1	549.8	622.2	633.1
132.5°	259.4	272.7	286.1	289.4	327.2	377.7	402.8	446.1	532.7	597.6	607.3
135°	271.7	283.9	296.0	299.0	332.6	377.3	399.6	435.9	508.3	562.7	571.1
137.5°	284.3	296.3	308.3	311.3	340.6	379.6	399.1	429.7	490.9	536.9	543.8
140°	294.7	305.8	317.0	319.7	345.5	380.0	397.2	423.6	476.6	516.3	522.7
142.5°	302.8	313.0	323.3	325.9	349.6	381.3	397.2	420.4	466.9	501.8	507.4
145°	315.2	324.1	333.0	335.3	355.0	381.3	394.5	413.6	451.6	480.1	484.2
147.5°	327.5	336.2	344.9	347.1	362.9	384.0	394.5	409.5	439.4	461.8	465.3
150°	335.5	343.4	351.2	353.2	367.0	385.3	394.5	407.2	432.5	451.4	454.2
152.5°	343.8	349.8	355.7	357.2	369.6	386.2	394.5	405.3	426.9	443.1	445.2
155°	356.2	360.5	365.0	366.1	375.5	388.2	394.5	403.1	420.3	433.2	434.6
157.5°	365.3	369.5	373.9	375.0	381.5	390.2	394.5	401.2	414.5	424.5	425.5
160°	371.5	374.8	378.2	379.0	384.2	391.1	394.5	400.3	411.7	420.2	420.8
162.5°	377.7	380.2	382.7	383.3	387.0	392.0	394.5	399.4	409.0	416.2	416.8
165°	384.4	386.6	388.9	389.5	391.1	393.4	394.5	398.0	404.9	410.1	410.6
167.5°	390.5	391.6	392.7	392.9	394.4	396.2	397.2	399.4	404.0	407.4	407.7
170°	394.5	395.6	396.7	396.9	397.0	397.1	397.2	399.4	404.0	407.4	407.4
172.5°	396.7	396.9	397.1	397.2	397.2	397.2	397.2	399.0	402.6	405.2	405.1
175°	399.6	399.6	399.6	399.6	398.8	397.8	397.2	398.4	400.6	402.3	402.3
177.5°	399.6	399.6	399.6	399.6	399.0	398.2	397.8	398.6	400.4	401.8	401.5
180°	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1946.8	1941.4	1946.8	1943.1	1944.9	1939.6	1923.4	1918.1	1923.4	1928.8	1928.8
5°	1970.1	1966.5	1970.1	1970.1	1968.3	1964.7	1946.8	1943.1	1946.8	1948.6	1944.9
7.5°	1977.3	1971.9	1977.3	1973.7	1973.7	1970.1	1952.2	1948.6	1950.4	1955.7	1950.4
10°	1977.3	1971.9	1977.3	1975.5	1973.7	1970.1	1952.2	1944.9	1944.9	1950.4	1944.9
12.5°	1968.3	1964.7	1968.3	1964.7	1964.7	1961.2	1943.1	1936.0	1937.8	1939.6	1932.4
15°	1953.9	1948.6	1953.9	1950.4	1952.2	1946.8	1927.0	1919.8	1919.8	1923.4	1910.8
17.5°	1932.4	1925.2	1932.4	1930.6	1928.8	1925.2	1907.3	1900.1	1898.2	1900.1	1891.1
20°	1907.3	1901.9	1907.3	1905.5	1905.5	1898.2	1880.3	1871.4	1871.4	1871.4	1862.4
22.5°	1867.7	1862.4	1867.7	1871.4	1871.4	1869.5	1853.3	1840.9	1837.2	1837.2	1826.5
25°	1822.8	1817.5	1822.8	1822.8	1821.0	1822.8	1817.5	1810.3	1804.9	1799.5	1788.7
27.5°	1779.7	1776.1	1779.7	1776.1	1779.7	1774.4	1772.6	1770.8	1763.5	1758.2	1743.8
30°	1736.7	1733.0	1736.7	1733.0	1729.5	1725.9	1716.9	1713.3	1720.5	1716.9	1693.6
32.5°	1682.8	1679.2	1682.8	1682.8	1679.2	1679.2	1664.8	1659.4	1661.3	1672.0	1650.5
35°	1627.1	1621.7	1627.1	1625.3	1627.1	1621.7	1612.7	1610.9	1603.8	1616.4	1600.2
37.5°	1562.4	1557.1	1562.4	1562.4	1562.4	1566.0	1558.9	1553.4	1542.7	1558.9	1546.3
40°	1496.0	1488.8	1496.0	1494.2	1496.0	1499.6	1496.0	1492.4	1481.7	1494.2	1483.4
42.5°	1420.6	1418.7	1420.6	1422.4	1422.4	1429.5	1435.0	1427.7	1424.2	1415.2	1422.4
45°	1339.7	1336.2	1339.7	1343.3	1345.2	1348.7	1364.9	1364.9	1359.5	1345.2	1355.9
47.5°	1253.5	1244.6	1253.5	1264.3	1264.3	1269.8	1285.9	1298.4	1289.5	1271.5	1276.9
50°	1161.9	1163.7	1161.9	1169.2	1169.2	1188.9	1201.5	1214.1	1223.0	1201.5	1176.3
52.5°	1072.1	1070.3	1072.1	1077.6	1084.7	1093.7	1115.2	1127.8	1142.2	1129.6	1090.2
55°	982.3	986.0	982.3	984.2	987.8	993.1	1025.4	1038.0	1065.0	1048.8	1007.5
57.5°	892.5	887.2	892.5	896.2	898.0	903.3	930.3	953.6	969.8	971.6	921.3
60°	788.4	781.2	788.4	804.6	808.2	811.7	836.9	858.4	872.8	878.2	826.1
62.5°	696.8	684.3	696.8	707.6	714.8	723.7	741.7	774.1	786.6	788.4	714.8
65°	599.8	594.5	599.8	621.4	623.1	633.9	653.8	677.1	704.0	700.4	594.5
67.5°	511.8	511.8	511.8	526.2	537.0	542.4	567.5	578.3	612.4	616.0	495.7
70°	431.0	429.3	431.0	441.8	449.0	461.6	484.9	497.5	524.4	533.4	402.3
72.5°	353.8	352.0	353.8	362.8	370.0	380.7	400.5	414.9	438.2	449.0	312.5
75°	285.5	282.0	285.5	292.7	290.9	305.3	321.4	335.8	357.4	364.5	231.6
77.5°	219.1	219.1	219.1	226.3	226.3	240.7	247.9	265.8	278.4	289.1	170.6
80°	163.4	161.7	163.4	165.2	165.2	172.4	185.0	197.5	208.3	208.3	116.8
82.5°	115.0	111.3	115.0	115.0	115.0	118.5	125.7	129.3	136.5	141.8	73.6
85°	71.9	71.9	71.9	73.6	71.9	75.4	77.2	80.8	80.8	77.2	44.9
87.5°	46.7	44.9	46.7	44.9	44.9	43.1	43.1	43.1	41.3	39.5	25.2
90°	10.2	10.2	10.2	10.2	10.2	13.6	18.1	20.4	17.5	11.8	7.5
92.5°	40.9	32.8	40.9	48.9	51.0	72.2	100.6	114.8	100.8	72.7	51.8
95°	142.3	117.7	142.3	166.8	173.0	227.2	299.4	335.5	283.4	179.1	100.9
97.5°	341.0	294.2	341.0	387.7	399.4	433.6	479.2	502.1	415.2	241.2	110.8
100°	491.3	435.6	491.3	546.9	560.8	558.3	555.0	553.3	456.8	263.9	119.1
102.5°	639.0	591.4	639.0	686.7	698.7	655.0	596.9	567.8	470.0	274.2	127.4
105°	827.5	801.9	827.5	853.2	859.6	761.8	631.4	566.2	471.4	281.9	139.7
107.5°	951.1	957.2	951.1	944.8	943.3	806.8	624.9	534.0	450.4	283.3	158.0
110°	998.1	1024.8	998.1	971.4	964.7	812.2	608.9	507.2	431.8	281.2	168.2



TEST NUMBER: P933827

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1002.3	1043.3	1002.3	961.4	951.1	795.0	586.9	482.8	415.6	281.3	180.5
115°	975.7	1032.6	975.7	918.9	904.7	754.3	553.8	453.5	396.9	283.9	199.1
117.5°	919.4	982.4	919.4	856.4	840.6	704.9	524.0	433.5	385.3	289.1	217.0
120°	874.0	935.2	874.0	812.7	797.4	673.4	508.0	425.3	381.3	293.4	227.4
122.5°	829.8	890.2	829.8	769.3	754.2	642.5	493.6	419.2	379.3	299.6	239.8
125°	766.6	822.3	766.6	711.0	697.0	602.2	475.7	412.5	377.7	308.0	255.6
127.5°	709.9	756.9	709.9	662.9	651.2	569.8	461.1	406.9	376.7	316.3	270.9
130°	676.5	719.9	676.5	633.1	622.2	549.8	453.1	404.7	377.2	322.3	281.1
132.5°	646.2	685.0	646.2	607.3	597.6	532.7	446.1	402.8	377.7	327.2	289.4
135°	604.6	638.0	604.6	571.1	562.7	508.3	435.9	399.6	377.3	332.6	299.0
137.5°	571.2	598.7	571.2	543.8	536.9	490.9	429.7	399.1	379.6	340.6	311.3
140°	548.3	574.0	548.3	522.7	516.3	476.6	423.6	397.2	380.0	345.5	319.7
142.5°	529.4	551.5	529.4	507.4	501.8	466.9	420.4	397.2	381.3	349.6	325.9
145°	500.9	517.6	500.9	484.2	480.1	451.6	413.6	394.5	381.3	355.0	335.3
147.5°	479.2	493.0	479.2	465.3	461.8	439.4	409.5	394.5	384.0	362.9	347.1
150°	465.4	476.6	465.4	454.2	451.4	432.5	407.2	394.5	385.3	367.0	353.2
152.5°	453.6	462.1	453.6	445.2	443.1	426.9	405.3	394.5	386.2	369.6	357.2
155°	440.2	445.8	440.2	434.6	433.2	420.3	403.1	394.5	388.2	375.5	366.1
157.5°	429.5	433.5	429.5	425.5	424.5	414.5	401.2	394.5	390.2	381.5	375.0
160°	423.1	425.3	423.1	420.8	420.2	411.7	400.3	394.5	391.1	384.2	379.0
162.5°	418.9	421.0	418.9	416.8	416.2	409.0	399.4	394.5	392.0	387.0	383.3
165°	412.9	415.2	412.9	410.6	410.1	404.9	398.0	394.5	393.4	391.1	389.5
167.5°	408.6	409.5	408.6	407.7	407.4	404.0	399.4	397.2	396.2	394.4	392.9
170°	407.4	407.4	407.4	407.4	407.4	404.0	399.4	397.2	397.1	397.0	396.9
172.5°	404.2	403.4	404.2	405.1	405.2	402.6	399.0	397.2	397.2	397.2	397.2
175°	402.3	402.3	402.3	402.3	402.3	400.6	398.4	397.2	397.8	398.8	399.6
177.5°	400.6	399.6	400.6	401.5	401.8	400.4	398.6	397.8	398.2	399.0	399.6
180°	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6



TEST NUMBER: P933827

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1925.2	1914.4	1914.4	1896.5	1889.3	1883.9	1874.9	1848.0	1840.9	1833.6	1844.4
5°	1941.4	1921.6	1907.3	1874.9	1848.0	1837.2	1803.1	1738.5	1695.4	1663.0	1645.1
7.5°	1944.9	1919.8	1892.9	1842.6	1777.9	1749.2	1645.1	1526.6	1494.2	1465.5	1447.5
10°	1941.4	1912.6	1874.9	1799.5	1646.9	1596.5	1492.4	1415.2	1395.4	1390.1	1395.4
12.5°	1928.8	1901.9	1849.8	1724.1	1510.4	1476.2	1415.2	1370.3	1366.7	1375.7	1424.2
15°	1907.3	1882.1	1821.0	1623.5	1435.0	1409.8	1366.7	1350.5	1370.3	1433.1	1578.6
17.5°	1885.7	1857.0	1781.6	1524.8	1377.5	1359.5	1328.9	1361.3	1472.6	1557.1	1605.6
20°	1857.0	1822.8	1736.7	1452.9	1336.2	1320.0	1305.6	1451.1	1535.5	1566.0	1593.0
22.5°	1822.8	1786.9	1675.6	1402.6	1293.0	1280.5	1289.5	1501.4	1535.5	1557.1	1580.4
25°	1777.9	1747.4	1603.8	1363.1	1259.0	1244.6	1278.7	1496.0	1515.8	1521.1	1567.8
27.5°	1736.7	1697.1	1528.3	1327.1	1217.6	1212.3	1287.7	1472.6	1487.0	1492.4	1542.7
30°	1686.3	1627.1	1443.9	1289.5	1174.5	1172.7	1289.5	1443.9	1440.3	1454.7	1505.0
32.5°	1634.3	1522.9	1348.7	1242.8	1133.2	1131.4	1276.9	1400.8	1397.2	1416.9	1454.7
35°	1585.8	1442.1	1219.4	1188.9	1081.1	1082.9	1246.4	1350.5	1352.3	1370.3	1393.6
37.5°	1535.5	1372.0	1077.6	1129.6	1030.9	1030.9	1205.0	1303.9	1300.3	1305.6	1337.9
40°	1476.2	1262.5	951.8	1052.4	984.2	978.8	1154.8	1253.5	1241.0	1239.2	1284.0
42.5°	1413.4	1142.2	858.4	950.0	930.3	923.1	1093.7	1192.5	1169.2	1174.5	1232.0
45°	1345.2	1109.9	786.6	802.7	874.6	869.2	1027.2	1122.5	1106.3	1120.7	1180.0
47.5°	1276.9	1045.3	763.3	666.3	815.3	813.5	953.6	1054.2	1045.3	1059.6	1122.5
50°	1183.5	973.4	761.5	571.1	748.9	756.0	865.7	987.8	987.8	1000.4	1066.8
52.5°	1063.2	885.4	691.4	517.2	671.7	693.2	788.4	930.3	933.9	946.4	1005.7
55°	953.6	793.8	641.2	475.9	580.1	626.8	712.9	871.0	878.2	890.7	944.7
57.5°	853.1	660.9	630.4	427.4	495.7	540.6	646.5	813.5	817.1	827.9	880.0
60°	745.3	477.7	578.3	375.3	422.0	456.1	585.5	745.3	757.8	765.1	810.0
62.5°	623.1	346.6	524.4	339.5	386.1	393.3	535.2	680.6	696.8	702.2	729.2
65°	443.6	290.9	445.4	308.9	348.4	350.2	481.3	614.2	628.6	637.5	657.3
67.5°	299.9	237.1	339.5	280.2	319.6	321.4	429.3	537.0	556.7	564.0	576.5
70°	208.3	158.1	251.5	249.7	287.3	290.9	373.6	466.9	484.9	490.3	497.5
72.5°	152.6	127.5	208.3	224.5	253.2	256.8	316.1	387.9	405.9	411.2	414.9
75°	116.8	134.7	168.8	195.8	215.5	217.3	258.6	316.1	328.7	332.2	334.0
77.5°	93.4	125.7	123.9	158.1	176.0	172.4	203.0	244.2	255.0	255.0	255.0
80°	70.1	98.8	93.4	113.2	129.3	125.7	145.5	174.2	177.8	181.4	179.6
82.5°	52.0	62.8	62.8	71.9	86.2	82.7	96.9	113.2	113.2	113.2	116.8
85°	32.3	35.9	28.7	37.8	48.5	46.7	53.9	61.1	62.8	62.8	59.3
87.5°	19.7	16.2	9.0	14.4	21.5	21.5	25.2	27.0	25.2	25.2	25.2
90°	7.0	4.8	2.7	4.8	7.0	7.5	11.8	17.5	20.4	18.1	13.6
92.5°	47.2	28.9	10.7	28.9	47.2	51.8	72.7	100.8	114.8	100.6	72.2
95°	92.5	59.1	25.7	59.1	92.5	100.9	179.1	283.4	335.5	299.4	227.2
97.5°	103.5	74.0	44.5	74.0	103.5	110.8	241.2	415.2	502.1	479.2	433.6
100°	112.4	85.7	59.0	85.7	112.4	119.1	263.9	456.8	553.3	555.0	558.3
102.5°	121.1	96.2	71.3	96.2	121.1	127.4	274.2	470.0	567.8	596.9	655.0
105°	134.4	113.4	92.3	113.4	134.4	139.7	281.9	471.4	566.2	631.4	761.8
107.5°	153.1	133.4	113.7	133.4	153.1	158.0	283.3	450.4	534.0	624.9	806.8
110°	163.7	145.9	128.2	145.9	163.7	168.2	281.2	431.8	507.2	608.9	812.2



TEST NUMBER: P933827

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	176.3	159.3	142.5	159.3	176.3	180.5	281.3	415.6	482.8	586.9	795.0
115°	195.1	179.5	163.9	179.5	195.1	199.1	283.9	396.9	453.5	553.8	754.3
117.5°	213.4	199.2	185.0	199.2	213.4	217.0	289.1	385.3	433.5	524.0	704.9
120°	224.1	210.7	197.4	210.7	224.1	227.4	293.4	381.3	425.3	508.0	673.4
122.5°	236.4	223.0	209.5	223.0	236.4	239.8	299.6	379.3	419.2	493.6	642.5
125°	252.6	240.3	228.0	240.3	252.6	255.6	308.0	377.7	412.5	475.7	602.2
127.5°	267.8	255.4	243.0	255.4	267.8	270.9	316.3	376.7	406.9	461.1	569.8
130°	277.8	264.4	251.0	264.4	277.8	281.1	322.3	377.2	404.7	453.1	549.8
132.5°	286.1	272.7	259.4	272.7	286.1	289.4	327.2	377.7	402.8	446.1	532.7
135°	296.0	283.9	271.7	283.9	296.0	299.0	332.6	377.3	399.6	435.9	508.3
137.5°	308.3	296.3	284.3	296.3	308.3	311.3	340.6	379.6	399.1	429.7	490.9
140°	317.0	305.8	294.7	305.8	317.0	319.7	345.5	380.0	397.2	423.6	476.6
142.5°	323.3	313.0	302.8	313.0	323.3	325.9	349.6	381.3	397.2	420.4	466.9
145°	333.0	324.1	315.2	324.1	333.0	335.3	355.0	381.3	394.5	413.6	451.6
147.5°	344.9	336.2	327.5	336.2	344.9	347.1	362.9	384.0	394.5	409.5	439.4
150°	351.2	343.4	335.5	343.4	351.2	353.2	367.0	385.3	394.5	407.2	432.5
152.5°	355.7	349.8	343.8	349.8	355.7	357.2	369.6	386.2	394.5	405.3	426.9
155°	365.0	360.5	356.2	360.5	365.0	366.1	375.5	388.2	394.5	403.1	420.3
157.5°	373.9	369.5	365.3	369.5	373.9	375.0	381.5	390.2	394.5	401.2	414.5
160°	378.2	374.8	371.5	374.8	378.2	379.0	384.2	391.1	394.5	400.3	411.7
162.5°	382.7	380.2	377.7	380.2	382.7	383.3	387.0	392.0	394.5	399.4	409.0
165°	388.9	386.6	384.4	386.6	388.9	389.5	391.1	393.4	394.5	398.0	404.9
167.5°	392.7	391.6	390.5	391.6	392.7	392.9	394.4	396.2	397.2	399.4	404.0
170°	396.7	395.6	394.5	395.6	396.7	396.9	397.0	397.1	397.2	399.4	404.0
172.5°	397.1	396.9	396.7	396.9	397.1	397.2	397.2	397.2	397.2	399.0	402.6
175°	399.6	399.6	399.6	399.6	399.6	399.6	398.8	397.8	397.2	398.4	400.6
177.5°	399.6	399.6	399.6	399.6	399.6	399.6	399.0	398.2	397.8	398.6	400.4
180°	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6



TEST NUMBER: P933827

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1831.8	1826.5	1833.6	1813.9	1833.6	1826.5	1831.8	1844.4	1833.6	1840.9	1848.0
5°	1607.3	1598.3	1569.7	1546.3	1569.7	1598.3	1607.3	1645.1	1663.0	1695.4	1738.5
7.5°	1436.8	1429.5	1422.4	1408.0	1422.4	1429.5	1436.8	1447.5	1465.5	1494.2	1526.6
10°	1399.0	1400.8	1411.6	1409.8	1411.6	1400.8	1399.0	1395.4	1390.1	1395.4	1415.2
12.5°	1496.0	1512.2	1571.5	1567.8	1571.5	1512.2	1496.0	1424.2	1375.7	1366.7	1370.3
15°	1607.3	1612.7	1625.3	1627.1	1625.3	1612.7	1607.3	1578.6	1433.1	1370.3	1350.5
17.5°	1618.1	1619.9	1628.9	1628.9	1628.9	1619.9	1618.1	1605.6	1557.1	1472.6	1361.3
20°	1609.1	1612.7	1630.7	1634.3	1630.7	1612.7	1609.1	1593.0	1566.0	1535.5	1451.1
22.5°	1605.6	1612.7	1627.1	1625.3	1627.1	1612.7	1605.6	1580.4	1557.1	1535.5	1501.4
25°	1587.6	1587.6	1589.4	1591.2	1589.4	1587.6	1587.6	1567.8	1521.1	1515.8	1496.0
27.5°	1549.9	1553.4	1564.2	1562.4	1564.2	1553.4	1549.9	1542.7	1492.4	1487.0	1472.6
30°	1515.8	1512.2	1503.2	1496.0	1503.2	1512.2	1515.8	1505.0	1454.7	1440.3	1443.9
32.5°	1458.3	1449.3	1440.3	1435.0	1440.3	1449.3	1458.3	1454.7	1416.9	1397.2	1400.8
35°	1390.1	1391.9	1390.1	1384.6	1390.1	1391.9	1390.1	1393.6	1370.3	1352.3	1350.5
37.5°	1341.5	1345.2	1343.3	1336.2	1343.3	1345.2	1341.5	1337.9	1305.6	1300.3	1303.9
40°	1291.3	1293.0	1291.3	1285.9	1291.3	1293.0	1291.3	1284.0	1239.2	1241.0	1253.5
42.5°	1242.8	1241.0	1235.6	1232.0	1235.6	1241.0	1242.8	1232.0	1174.5	1169.2	1192.5
45°	1187.1	1188.9	1178.1	1172.7	1178.1	1188.9	1187.1	1180.0	1120.7	1106.3	1122.5
47.5°	1131.4	1131.4	1122.5	1117.0	1122.5	1131.4	1131.4	1122.5	1059.6	1045.3	1054.2
50°	1072.1	1070.3	1057.8	1056.0	1057.8	1070.3	1072.1	1066.8	1000.4	987.8	987.8
52.5°	1003.9	1003.9	1005.7	1009.3	1005.7	1003.9	1003.9	1005.7	946.4	933.9	930.3
55°	944.7	946.4	959.0	962.6	959.0	946.4	944.7	944.7	890.7	878.2	871.0
57.5°	883.6	883.6	892.5	892.5	892.5	883.6	883.6	880.0	827.9	817.1	813.5
60°	813.5	817.1	824.3	822.5	824.3	817.1	813.5	810.0	765.1	757.8	745.3
62.5°	739.9	743.6	745.3	741.7	745.3	743.6	739.9	729.2	702.2	696.8	680.6
65°	662.7	666.3	668.0	664.5	668.0	666.3	662.7	657.3	637.5	628.6	614.2
67.5°	583.7	581.9	580.1	587.3	580.1	581.9	583.7	576.5	564.0	556.7	537.0
70°	502.8	502.8	501.0	504.7	501.0	502.8	502.8	497.5	490.3	484.9	466.9
72.5°	416.7	414.9	422.0	416.7	422.0	414.9	416.7	414.9	411.2	405.9	387.9
75°	332.2	335.8	332.2	337.6	332.2	335.8	332.2	334.0	332.2	328.7	316.1
77.5°	253.2	256.8	253.2	253.2	253.2	256.8	253.2	255.0	255.0	255.0	244.2
80°	179.6	177.8	177.8	176.0	177.8	177.8	179.6	179.6	181.4	177.8	174.2
82.5°	115.0	113.2	113.2	116.8	113.2	113.2	115.0	116.8	113.2	113.2	113.2
85°	62.8	64.6	61.1	61.1	61.1	64.6	62.8	59.3	62.8	62.8	61.1
87.5°	23.4	21.5	21.5	21.5	21.5	21.5	23.4	25.2	25.2	25.2	27.0
90°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	13.6	18.1	20.4	17.5
92.5°	51.0	48.9	40.9	32.8	40.9	48.9	51.0	72.2	100.6	114.8	100.8
95°	173.0	166.8	142.3	117.7	142.3	166.8	173.0	227.2	299.4	335.5	283.4
97.5°	399.4	387.7	341.0	294.2	341.0	387.7	399.4	433.6	479.2	502.1	415.2
100°	560.8	546.9	491.3	435.6	491.3	546.9	560.8	558.3	555.0	553.3	456.8
102.5°	698.7	686.7	639.0	591.4	639.0	686.7	698.7	655.0	596.9	567.8	470.0
105°	859.6	853.2	827.5	801.9	827.5	853.2	859.6	761.8	631.4	566.2	471.4
107.5°	943.3	944.8	951.1	957.2	951.1	944.8	943.3	806.8	624.9	534.0	450.4
110°	964.7	971.4	998.1	1024.8	998.1	971.4	964.7	812.2	608.9	507.2	431.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	951.1	961.4	1002.3	1043.3	1002.3	961.4	951.1	795.0	586.9	482.8	415.6
115°	904.7	918.9	975.7	1032.6	975.7	918.9	904.7	754.3	553.8	453.5	396.9
117.5°	840.6	856.4	919.4	982.4	919.4	856.4	840.6	704.9	524.0	433.5	385.3
120°	797.4	812.7	874.0	935.2	874.0	812.7	797.4	673.4	508.0	425.3	381.3
122.5°	754.2	769.3	829.8	890.2	829.8	769.3	754.2	642.5	493.6	419.2	379.3
125°	697.0	711.0	766.6	822.3	766.6	711.0	697.0	602.2	475.7	412.5	377.7
127.5°	651.2	662.9	709.9	756.9	709.9	662.9	651.2	569.8	461.1	406.9	376.7
130°	622.2	633.1	676.5	719.9	676.5	633.1	622.2	549.8	453.1	404.7	377.2
132.5°	597.6	607.3	646.2	685.0	646.2	607.3	597.6	532.7	446.1	402.8	377.7
135°	562.7	571.1	604.6	638.0	604.6	571.1	562.7	508.3	435.9	399.6	377.3
137.5°	536.9	543.8	571.2	598.7	571.2	543.8	536.9	490.9	429.7	399.1	379.6
140°	516.3	522.7	548.3	574.0	548.3	522.7	516.3	476.6	423.6	397.2	380.0
142.5°	501.8	507.4	529.4	551.5	529.4	507.4	501.8	466.9	420.4	397.2	381.3
145°	480.1	484.2	500.9	517.6	500.9	484.2	480.1	451.6	413.6	394.5	381.3
147.5°	461.8	465.3	479.2	493.0	479.2	465.3	461.8	439.4	409.5	394.5	384.0
150°	451.4	454.2	465.4	476.6	465.4	454.2	451.4	432.5	407.2	394.5	385.3
152.5°	443.1	445.2	453.6	462.1	453.6	445.2	443.1	426.9	405.3	394.5	386.2
155°	433.2	434.6	440.2	445.8	440.2	434.6	433.2	420.3	403.1	394.5	388.2
157.5°	424.5	425.5	429.5	433.5	429.5	425.5	424.5	414.5	401.2	394.5	390.2
160°	420.2	420.8	423.1	425.3	423.1	420.8	420.2	411.7	400.3	394.5	391.1
162.5°	416.2	416.8	418.9	421.0	418.9	416.8	416.2	409.0	399.4	394.5	392.0
165°	410.1	410.6	412.9	415.2	412.9	410.6	410.1	404.9	398.0	394.5	393.4
167.5°	407.4	407.7	408.6	409.5	408.6	407.7	407.4	404.0	399.4	397.2	396.2
170°	407.4	407.4	407.4	407.4	407.4	407.4	407.4	404.0	399.4	397.2	397.1
172.5°	405.2	405.1	404.2	403.4	404.2	405.1	405.2	402.6	399.0	397.2	397.2
175°	402.3	402.3	402.3	402.3	402.3	402.3	402.3	400.6	398.4	397.2	397.8
177.5°	401.8	401.5	400.6	399.6	400.6	401.5	401.8	400.4	398.6	397.8	398.2
180°	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1874.9	1883.9	1889.3	1896.5	1914.4
5°	1803.1	1837.2	1848.0	1874.9	1907.3
7.5°	1645.1	1749.2	1777.9	1842.6	1892.9
10°	1492.4	1596.5	1646.9	1799.5	1874.9
12.5°	1415.2	1476.2	1510.4	1724.1	1849.8
15°	1366.7	1409.8	1435.0	1623.5	1821.0
17.5°	1328.9	1359.5	1377.5	1524.8	1781.6
20°	1305.6	1320.0	1336.2	1452.9	1736.7
22.5°	1289.5	1280.5	1293.0	1402.6	1675.6
25°	1278.7	1244.6	1259.0	1363.1	1603.8
27.5°	1287.7	1212.3	1217.6	1327.1	1528.3
30°	1289.5	1172.7	1174.5	1289.5	1443.9
32.5°	1276.9	1131.4	1133.2	1242.8	1348.7
35°	1246.4	1082.9	1081.1	1188.9	1219.4
37.5°	1205.0	1030.9	1030.9	1129.6	1077.6
40°	1154.8	978.8	984.2	1052.4	951.8
42.5°	1093.7	923.1	930.3	950.0	858.4
45°	1027.2	869.2	874.6	802.7	786.6
47.5°	953.6	813.5	815.3	666.3	763.3
50°	865.7	756.0	748.9	571.1	761.5
52.5°	788.4	693.2	671.7	517.2	691.4
55°	712.9	626.8	580.1	475.9	641.2
57.5°	646.5	540.6	495.7	427.4	630.4
60°	585.5	456.1	422.0	375.3	578.3
62.5°	535.2	393.3	386.1	339.5	524.4
65°	481.3	350.2	348.4	308.9	445.4
67.5°	429.3	321.4	319.6	280.2	339.5
70°	373.6	290.9	287.3	249.7	251.5
72.5°	316.1	256.8	253.2	224.5	208.3
75°	258.6	217.3	215.5	195.8	168.8
77.5°	203.0	172.4	176.0	158.1	123.9
80°	145.5	125.7	129.3	113.2	93.4
82.5°	96.9	82.7	86.2	71.9	62.8
85°	53.9	46.7	48.5	37.8	28.7
87.5°	25.2	21.5	21.5	14.4	9.0
90°	11.8	7.5	7.0	4.8	2.7
92.5°	72.7	51.8	47.2	28.9	10.7
95°	179.1	100.9	92.5	59.1	25.7
97.5°	241.2	110.8	103.5	74.0	44.5
100°	263.9	119.1	112.4	85.7	59.0
102.5°	274.2	127.4	121.1	96.2	71.3
105°	281.9	139.7	134.4	113.4	92.3
107.5°	283.3	158.0	153.1	133.4	113.7
110°	281.2	168.2	163.7	145.9	128.2



TEST NUMBER: P933827

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	281.3	180.5	176.3	159.3	142.5
115°	283.9	199.1	195.1	179.5	163.9
117.5°	289.1	217.0	213.4	199.2	185.0
120°	293.4	227.4	224.1	210.7	197.4
122.5°	299.6	239.8	236.4	223.0	209.5
125°	308.0	255.6	252.6	240.3	228.0
127.5°	316.3	270.9	267.8	255.4	243.0
130°	322.3	281.1	277.8	264.4	251.0
132.5°	327.2	289.4	286.1	272.7	259.4
135°	332.6	299.0	296.0	283.9	271.7
137.5°	340.6	311.3	308.3	296.3	284.3
140°	345.5	319.7	317.0	305.8	294.7
142.5°	349.6	325.9	323.3	313.0	302.8
145°	355.0	335.3	333.0	324.1	315.2
147.5°	362.9	347.1	344.9	336.2	327.5
150°	367.0	353.2	351.2	343.4	335.5
152.5°	369.6	357.2	355.7	349.8	343.8
155°	375.5	366.1	365.0	360.5	356.2
157.5°	381.5	375.0	373.9	369.5	365.3
160°	384.2	379.0	378.2	374.8	371.5
162.5°	387.0	383.3	382.7	380.2	377.7
165°	391.1	389.5	388.9	386.6	384.4
167.5°	394.4	392.9	392.7	391.6	390.5
170°	397.0	396.9	396.7	395.6	394.5
172.5°	397.2	397.2	397.1	396.9	396.7
175°	398.8	399.6	399.6	399.6	399.6
177.5°	399.0	399.6	399.6	399.6	399.6
180°	399.6	399.6	399.6	399.6	399.6



TEST NUMBER: P933827
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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	12.28	13.30	13.10	14.14	15.17	15.13	16.16	15.95	16.99	18.02
	3H	12.77	13.69	13.60	14.53	15.59	16.50	17.41	17.32	18.26	19.32
	4H	12.97	13.84	13.81	14.69	15.76	16.95	17.82	17.80	18.67	19.74
	6H	13.10	13.90	13.95	14.75	15.84	17.25	18.05	18.11	18.91	19.99
	8H	13.10	13.86	13.97	14.74	15.82	17.34	18.09	18.20	18.97	20.06
	12H	13.08	13.80	13.95	14.67	15.78	17.38	18.11	18.25	18.98	20.09
4H	2H	13.34	14.20	14.19	15.06	16.13	15.56	16.43	16.41	17.28	18.35
	3H	14.38	15.10	15.24	15.99	17.07	17.09	17.81	17.95	18.69	19.78
	4H	14.67	15.32	15.54	16.20	17.31	17.63	18.28	18.50	19.17	20.28
	6H	14.80	15.37	15.69	16.27	17.39	18.01	18.57	18.89	19.48	20.60
	8H	14.81	15.34	15.70	16.24	17.37	18.12	18.65	19.01	19.55	20.68
	12H	14.78	15.26	15.69	16.18	17.31	18.19	18.67	19.10	19.59	20.72
8H	4H	15.14	15.66	16.02	16.56	17.69	17.77	18.29	18.65	19.19	20.32
	6H	15.40	15.84	16.32	16.78	17.91	18.21	18.65	19.13	19.59	20.72
	8H	15.45	15.84	16.37	16.77	17.92	18.37	18.76	19.30	19.69	20.84
	12H	15.44	15.78	16.37	16.71	17.90	18.48	18.82	19.41	19.75	20.95
12H	4H	15.15	15.63	16.06	16.55	17.68	17.74	18.21	18.65	19.13	20.27
	6H	15.47	15.86	16.39	16.79	17.93	18.21	18.60	19.14	19.53	20.68
	8H	15.54	15.88	16.47	16.81	18.01	18.38	18.73	19.31	19.65	20.85