

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: P933946

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

**Test Information**

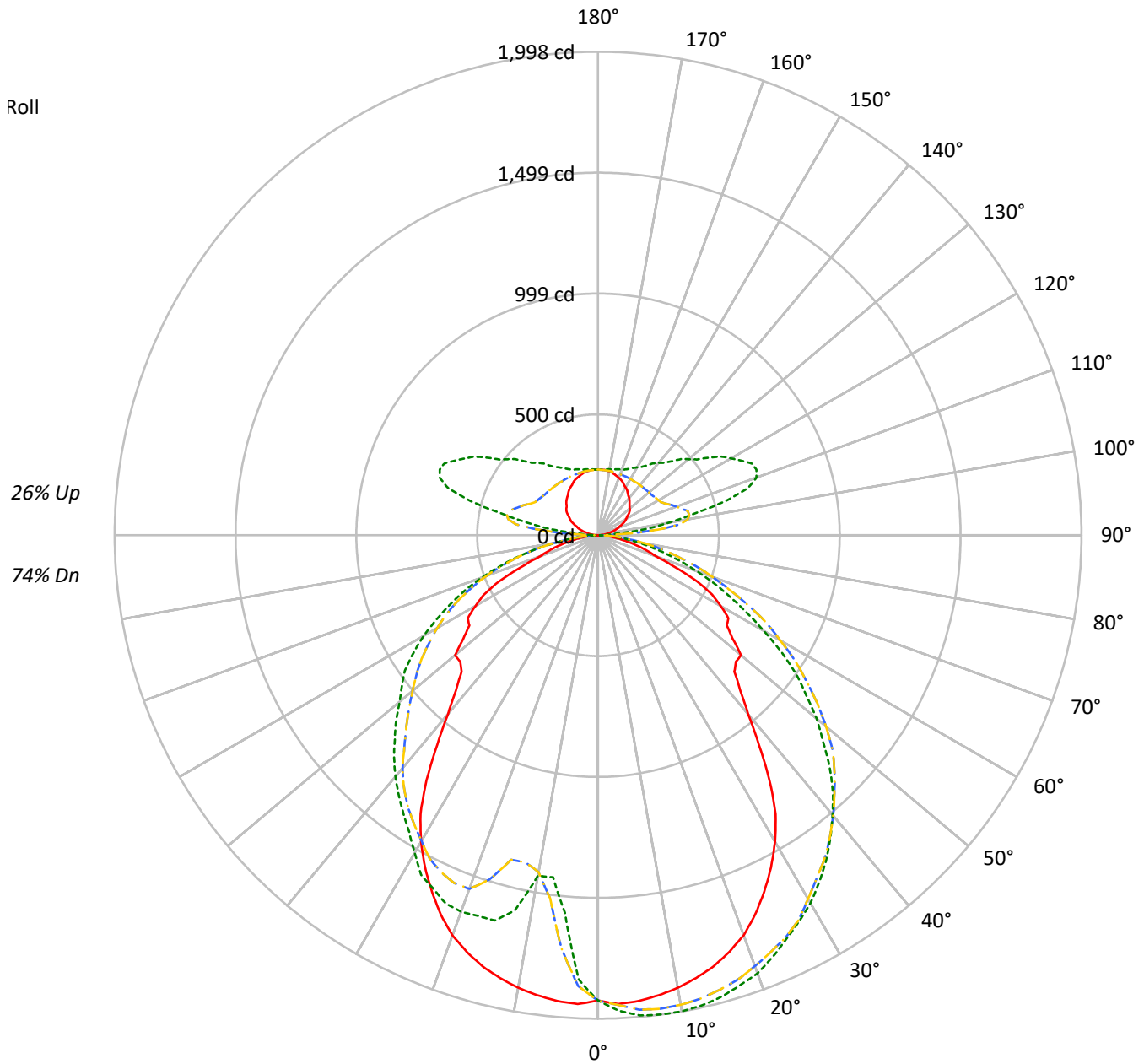
Test Method: LM-79-2019  
Report Number: P933946  
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6746.8 lumens  
Efficiency: N/A  
Efficacy: 112.4 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: Semi-Direct  
  
Input Watts (W): 60  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

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

	0°	90°	180°	270°
0°	8922	8922	8922	8922
5°	8988	9006	8988	7081
10°	8928	8871	8928	6342
15°	8831	8679	8831	7247
20°	8646	8451	8646	7262
25°	8268	8119	8268	7108
30°	7780	7843	7780	6771
35°	6935	7495	6935	6399
40°	5779	7084	5779	6118
45°	5164	6603	5164	5796
50°	5486	6030	5486	5472
55°	5162	5413	5162	5285
60°	5321	4598	5321	4840
65°	4824	3801	4824	4248
70°	3340	3029	3340	3561
75°	2929	2239	2929	2681
80°	2360	1480	2360	1612
85°	1355	784	1355	667

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7914 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.6	2.6
10°-20°	492.8	7.3
20°-30°	761.8	11.3
30°-40°	909.4	13.5
40°-50°	914.8	13.6
50°-60°	796.0	11.8
60°-70°	564.4	8.4
70°-80°	298.6	4.4
80°-90°	75.4	1.1
90°-100°	132.3	2.0
100°-110°	347.9	5.2
110°-120°	360.8	5.3
120°-130°	289.4	4.3
130°-140°	227.1	3.4
140°-150°	174.3	2.6
150°-160°	125.5	1.9
160°-170°	76.8	1.1
170°-180°	25.9	0.4
0°-30°	1428.2	21.2
0°-40°	2337.6	34.6
0°-60°	4048.4	60.0
0°-90°	4986.8	73.9
90°-120°	841.0	12.5
90°-150°	1531.8	22.7
90°-180°	1760.0	26.1
0°-180°	6746.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1923	1923	1923	1923	1923	
5°	1932	1992	1932	1566	1932	183
15°	1845	1974	1845	1648	1845	519
25°	1624	1841	1624	1612	1624	746
35°	1235	1643	1235	1403	1235	764
45°	797	1353	797	1188	797	638
55°	650	999	650	975	650	597
65°	451	602	451	673	451	431
75°	171	286	171	342	171	180
85°	29	73	29	62	29	39
90°	2	7	2	7	2	3
95°	18	80	18	80	18	19
105°	63	545	63	545	63	66
115°	111	702	111	702	111	110
125°	155	559	155	559	155	138
135°	185	433	185	433	185	143
145°	214	352	214	352	214	134
155°	242	303	242	303	242	111
165°	261	282	261	282	261	74
175°	272	273	272	273	272	26
180°	272	272	272	272	272	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1939.3	1939.3	1950.2	1953.8	1953.8	1948.4	1942.9	1948.4	1964.7	1970.2	1968.4
5°	1932.0	1946.5	1966.5	1970.2	1973.8	1972.0	1968.4	1972.0	1990.2	1993.8	1995.7
7.5°	1917.4	1944.7	1970.2	1975.6	1981.1	1975.6	1973.8	1977.5	1995.7	1999.3	1999.3
10°	1899.2	1937.4	1966.5	1970.2	1975.6	1970.2	1970.2	1977.5	1995.7	1999.3	2001.1
12.5°	1873.8	1926.5	1953.8	1957.4	1964.7	1962.9	1961.1	1968.4	1986.6	1990.2	1990.2
15°	1844.7	1906.5	1932.0	1935.6	1948.4	1944.7	1944.7	1952.0	1972.0	1977.5	1975.6
17.5°	1804.6	1881.0	1910.1	1915.6	1924.7	1922.9	1924.7	1932.0	1950.2	1953.8	1955.6
20°	1759.1	1846.5	1881.0	1886.5	1895.6	1895.6	1895.6	1904.7	1922.9	1930.2	1930.2
22.5°	1697.3	1810.1	1846.5	1850.1	1861.0	1861.0	1864.7	1877.4	1893.8	1895.6	1895.6
25°	1624.5	1770.1	1801.0	1811.9	1822.8	1828.3	1833.7	1841.0	1846.5	1844.7	1846.5
27.5°	1548.1	1719.1	1759.1	1766.4	1781.0	1786.4	1793.7	1795.5	1797.4	1802.8	1799.2
30°	1462.6	1648.2	1708.2	1715.5	1739.1	1742.8	1735.5	1739.1	1748.2	1751.9	1755.5
32.5°	1366.2	1542.7	1655.4	1671.8	1693.7	1682.7	1680.9	1686.4	1700.9	1700.9	1704.6
35°	1235.2	1460.8	1606.3	1620.9	1637.3	1624.5	1631.8	1633.6	1642.7	1648.2	1646.4
37.5°	1091.5	1389.8	1555.4	1566.3	1579.0	1562.7	1573.6	1579.0	1586.3	1582.7	1582.7
40°	964.2	1278.9	1495.4	1502.6	1513.5	1500.8	1511.7	1515.4	1519.0	1515.4	1513.5
42.5°	869.6	1157.0	1431.7	1440.8	1433.5	1442.6	1446.2	1453.5	1448.1	1440.8	1440.8
45°	796.8	1124.2	1362.5	1373.5	1362.5	1377.1	1382.6	1382.6	1366.2	1362.5	1360.7
47.5°	773.2	1058.8	1293.4	1293.4	1288.0	1306.1	1315.2	1302.5	1286.1	1280.7	1280.7
50°	771.4	986.0	1198.8	1191.5	1217.0	1238.8	1229.7	1217.0	1204.3	1184.3	1184.3
52.5°	700.4	896.9	1077.0	1104.2	1144.2	1157.0	1142.4	1129.7	1107.8	1098.8	1091.5
55°	649.5	804.1	966.0	1020.6	1062.5	1078.8	1051.5	1038.8	1006.1	1000.6	997.0
57.5°	638.6	669.5	864.2	933.3	984.2	982.4	966.0	942.4	915.1	909.6	907.8
60°	585.8	483.9	755.0	836.9	889.6	884.2	869.6	847.8	822.3	818.7	815.0
62.5°	531.2	351.1	631.3	724.1	798.7	796.8	784.1	751.4	733.2	724.1	716.8
65°	451.2	294.7	449.4	602.2	709.5	713.2	685.9	662.2	642.2	631.3	629.5
67.5°	343.8	240.1	303.8	502.1	624.0	620.4	585.8	574.9	549.4	544.0	533.0
70°	254.7	160.1	211.0	407.5	540.3	531.2	503.9	491.2	467.6	454.8	447.5
72.5°	211.0	129.2	154.6	316.6	454.8	443.9	420.3	405.7	385.7	374.8	367.5
75°	171.0	136.4	118.3	234.7	369.3	362.0	340.2	325.7	309.3	294.7	296.5
77.5°	125.5	127.3	94.6	172.8	292.9	282.0	269.3	251.1	243.8	229.2	229.2
80°	94.6	100.1	71.0	118.3	211.0	211.0	200.1	187.4	174.7	167.4	167.4
82.5°	63.7	63.7	52.8	74.6	143.7	138.3	131.0	127.3	120.1	116.4	116.4
85°	29.1	36.4	32.7	45.5	78.2	81.9	81.9	78.2	76.4	72.8	74.6
87.5°	9.1	16.4	20.0	25.5	40.0	41.8	43.7	43.7	43.7	45.5	45.5
90°	1.8	3.3	4.7	5.1	8.0	11.9	13.8	12.3	9.2	6.9	6.9
92.5°	7.3	19.6	32.1	35.2	49.5	68.5	78.0	68.3	49.1	34.7	33.3
95°	17.5	40.1	62.9	68.5	121.6	192.5	228.0	203.4	154.4	117.5	113.3
97.5°	30.3	50.3	70.2	75.2	163.8	282.0	341.1	325.7	294.6	271.3	263.4
100°	40.1	58.2	76.3	80.9	179.2	310.3	375.9	377.0	379.3	381.0	371.6
102.5°	48.5	65.4	82.3	86.5	186.3	319.3	385.8	405.5	445.0	474.6	466.6
105°	62.7	77.0	91.4	95.0	191.6	320.3	384.7	429.0	517.6	584.0	579.6
107.5°	77.2	90.6	104.0	107.3	192.5	306.0	362.8	424.5	548.1	640.8	641.9
110°	87.1	99.2	111.2	114.3	191.0	293.4	344.6	413.6	551.8	655.4	659.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	96.8	108.2	119.7	122.6	191.1	282.4	328.0	398.7	540.1	646.1	653.1
115°	111.3	121.9	132.5	135.2	192.8	269.7	308.1	376.2	512.5	614.6	624.3
117.5°	125.7	135.4	145.0	147.5	196.5	261.8	294.4	355.9	478.8	571.1	581.8
120°	134.1	143.2	152.3	154.5	199.4	259.2	289.0	345.1	457.5	541.7	552.1
122.5°	142.3	151.5	160.6	162.9	203.6	257.7	284.8	335.4	436.5	512.4	522.7
125°	154.9	163.3	171.6	173.6	209.2	256.6	280.3	323.2	409.2	473.6	483.0
127.5°	165.1	173.5	181.9	184.0	214.9	255.9	276.4	313.4	387.1	442.4	450.5
130°	170.6	179.7	188.7	190.9	218.9	256.3	275.0	307.8	373.5	422.7	430.1
132.5°	176.2	185.3	194.3	196.6	222.3	256.6	273.7	303.1	361.9	406.0	412.6
135°	184.6	192.8	201.1	203.2	226.0	256.3	271.5	296.2	345.4	382.3	388.0
137.5°	193.1	201.3	209.5	211.6	231.4	257.9	271.2	292.0	333.6	364.8	369.4
140°	200.2	207.8	215.3	217.2	234.8	258.2	269.9	287.9	323.8	350.8	355.1
142.5°	205.8	212.7	219.7	221.4	237.6	259.2	269.9	285.7	317.3	340.9	344.7
145°	214.1	220.2	226.2	227.8	241.2	259.2	268.1	281.0	306.8	326.2	329.0
147.5°	222.5	228.4	234.3	235.8	246.5	260.9	268.1	278.3	298.5	313.7	316.1
150°	228.0	233.3	238.6	240.0	249.3	261.8	268.1	276.6	293.8	306.6	308.5
152.5°	233.6	237.6	241.7	242.7	251.2	262.4	268.1	275.3	290.0	301.0	302.5
155°	242.0	245.0	248.0	248.7	255.2	263.8	268.1	273.9	285.5	294.3	295.2
157.5°	248.1	251.1	254.0	254.7	259.2	265.1	268.1	272.6	281.6	288.4	289.1
160°	252.3	254.6	256.9	257.4	261.0	265.7	268.1	272.0	279.7	285.5	285.9
162.5°	256.5	258.2	259.9	260.3	262.9	266.3	268.1	271.3	277.9	282.8	283.2
165°	261.2	262.7	264.2	264.6	265.8	267.3	268.1	270.4	275.1	278.6	279.0
167.5°	265.3	266.1	266.8	267.0	268.0	269.3	269.9	271.4	274.5	276.8	277.0
170°	268.1	268.8	269.5	269.7	269.8	269.9	269.9	271.4	274.5	276.8	276.8
172.5°	269.5	269.7	269.9	269.9	269.9	269.9	269.9	271.1	273.5	275.3	275.2
175°	271.5	271.5	271.5	271.5	271.0	270.3	269.9	270.6	272.2	273.3	273.3
177.5°	271.5	271.5	271.5	271.5	271.1	270.5	270.3	270.9	272.1	273.0	272.8
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1972.0	1966.5	1972.0	1968.4	1970.2	1964.7	1948.4	1942.9	1948.4	1953.8	1953.8
5°	1995.7	1992.0	1995.7	1995.7	1993.8	1990.2	1972.0	1968.4	1972.0	1973.8	1970.2
7.5°	2002.9	1997.5	2002.9	1999.3	1999.3	1995.7	1977.5	1973.8	1975.6	1981.1	1975.6
10°	2002.9	1997.5	2002.9	2001.1	1999.3	1995.7	1977.5	1970.2	1970.2	1975.6	1970.2
12.5°	1993.8	1990.2	1993.8	1990.2	1990.2	1986.6	1968.4	1961.1	1962.9	1964.7	1957.4
15°	1979.3	1973.8	1979.3	1975.6	1977.5	1972.0	1952.0	1944.7	1944.7	1948.4	1935.6
17.5°	1957.4	1950.2	1957.4	1955.6	1953.8	1950.2	1932.0	1924.7	1922.9	1924.7	1915.6
20°	1932.0	1926.5	1932.0	1930.2	1930.2	1922.9	1904.7	1895.6	1895.6	1895.6	1886.5
22.5°	1892.0	1886.5	1892.0	1895.6	1895.6	1893.8	1877.4	1864.7	1861.0	1861.0	1850.1
25°	1846.5	1841.0	1846.5	1846.5	1844.7	1846.5	1841.0	1833.7	1828.3	1822.8	1811.9
27.5°	1802.8	1799.2	1802.8	1799.2	1802.8	1797.4	1795.5	1793.7	1786.4	1781.0	1766.4
30°	1759.1	1755.5	1759.1	1755.5	1751.9	1748.2	1739.1	1735.5	1742.8	1739.1	1715.5
32.5°	1704.6	1700.9	1704.6	1704.6	1700.9	1700.9	1686.4	1680.9	1682.7	1693.7	1671.8
35°	1648.2	1642.7	1648.2	1646.4	1648.2	1642.7	1633.6	1631.8	1624.5	1637.3	1620.9
37.5°	1582.7	1577.2	1582.7	1582.7	1582.7	1586.3	1579.0	1573.6	1562.7	1579.0	1566.3
40°	1515.4	1508.1	1515.4	1513.5	1515.4	1519.0	1515.4	1511.7	1500.8	1513.5	1502.6
42.5°	1439.0	1437.1	1439.0	1440.8	1440.8	1448.1	1453.5	1446.2	1442.6	1433.5	1440.8
45°	1357.1	1353.4	1357.1	1360.7	1362.5	1366.2	1382.6	1382.6	1377.1	1362.5	1373.5
47.5°	1269.8	1260.7	1269.8	1280.7	1280.7	1286.1	1302.5	1315.2	1306.1	1288.0	1293.4
50°	1177.0	1178.8	1177.0	1184.3	1184.3	1204.3	1217.0	1229.7	1238.8	1217.0	1191.5
52.5°	1086.0	1084.3	1086.0	1091.5	1098.8	1107.8	1129.7	1142.4	1157.0	1144.2	1104.2
55°	995.1	998.8	995.1	997.0	1000.6	1006.1	1038.8	1051.5	1078.8	1062.5	1020.6
57.5°	904.2	898.7	904.2	907.8	909.6	915.1	942.4	966.0	982.4	984.2	933.3
60°	798.7	791.4	798.7	815.0	818.7	822.3	847.8	869.6	884.2	889.6	836.9
62.5°	705.9	693.1	705.9	716.8	724.1	733.2	751.4	784.1	796.8	798.7	724.1
65°	607.6	602.2	607.6	629.5	631.3	642.2	662.2	685.9	713.2	709.5	602.2
67.5°	518.5	518.5	518.5	533.0	544.0	549.4	574.9	585.8	620.4	624.0	502.1
70°	436.6	434.8	436.6	447.5	454.8	467.6	491.2	503.9	531.2	540.3	407.5
72.5°	358.4	356.6	358.4	367.5	374.8	385.7	405.7	420.3	443.9	454.8	316.6
75°	289.3	285.6	289.3	296.5	294.7	309.3	325.7	340.2	362.0	369.3	234.7
77.5°	222.0	222.0	222.0	229.2	229.2	243.8	251.1	269.3	282.0	292.9	172.8
80°	165.6	163.7	165.6	167.4	167.4	174.7	187.4	200.1	211.0	211.0	118.3
82.5°	116.4	112.8	116.4	116.4	116.4	120.1	127.3	131.0	138.3	143.7	74.6
85°	72.8	72.8	72.8	74.6	72.8	76.4	78.2	81.9	81.9	78.2	45.5
87.5°	47.3	45.5	47.3	45.5	45.5	43.7	43.7	43.7	41.8	40.0	25.5
90°	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.8	11.9	8.0	5.1
92.5°	27.7	22.2	27.7	33.3	34.7	49.1	68.3	78.0	68.5	49.5	35.2
95°	96.7	80.0	96.7	113.3	117.5	154.4	203.4	228.0	192.5	121.6	68.5
97.5°	231.6	199.8	231.6	263.4	271.3	294.6	325.7	341.1	282.0	163.8	75.2
100°	333.7	295.9	333.7	371.6	381.0	379.3	377.0	375.9	310.3	179.2	80.9
102.5°	434.2	401.8	434.2	466.6	474.6	445.0	405.5	385.8	319.3	186.3	86.5
105°	562.2	544.8	562.2	579.6	584.0	517.6	429.0	384.7	320.3	191.6	95.0
107.5°	646.1	650.3	646.1	641.9	640.8	548.1	424.5	362.8	306.0	192.5	107.3
110°	678.0	696.2	678.0	659.9	655.4	551.8	413.6	344.6	293.4	191.0	114.3





TEST NUMBER: P933946

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	681.0	708.8	681.0	653.1	646.1	540.1	398.7	328.0	282.4	191.1	122.6
115°	662.9	701.5	662.9	624.3	614.6	512.5	376.2	308.1	269.7	192.8	135.2
117.5°	624.6	667.5	624.6	581.8	571.1	478.8	355.9	294.4	261.8	196.5	147.5
120°	593.7	635.4	593.7	552.1	541.7	457.5	345.1	289.0	259.2	199.4	154.5
122.5°	563.7	604.7	563.7	522.7	512.4	436.5	335.4	284.8	257.7	203.6	162.9
125°	520.9	558.7	520.9	483.0	473.6	409.2	323.2	280.3	256.6	209.2	173.6
127.5°	482.3	514.2	482.3	450.5	442.4	387.1	313.4	276.4	255.9	214.9	184.0
130°	459.5	489.0	459.5	430.1	422.7	373.5	307.8	275.0	256.3	218.9	190.9
132.5°	439.0	465.4	439.0	412.6	406.0	361.9	303.1	273.7	256.6	222.3	196.6
135°	410.7	433.4	410.7	388.0	382.3	345.4	296.2	271.5	256.3	226.0	203.2
137.5°	388.1	406.7	388.1	369.4	364.8	333.6	292.0	271.2	257.9	231.4	211.6
140°	372.5	390.0	372.5	355.1	350.8	323.8	287.9	269.9	258.2	234.8	217.2
142.5°	359.7	374.6	359.7	344.7	340.9	317.3	285.7	269.9	259.2	237.6	221.4
145°	340.4	351.7	340.4	329.0	326.2	306.8	281.0	268.1	259.2	241.2	227.8
147.5°	325.5	334.9	325.5	316.1	313.7	298.5	278.3	268.1	260.9	246.5	235.8
150°	316.2	323.8	316.2	308.5	306.6	293.8	276.6	268.1	261.8	249.3	240.0
152.5°	308.2	313.9	308.2	302.5	301.0	290.0	275.3	268.1	262.4	251.2	242.7
155°	299.0	302.8	299.0	295.2	294.3	285.5	273.9	268.1	263.8	255.2	248.7
157.5°	291.8	294.4	291.8	289.1	288.4	281.6	272.6	268.1	265.1	259.2	254.7
160°	287.4	289.0	287.4	285.9	285.5	279.7	272.0	268.1	265.7	261.0	257.4
162.5°	284.6	286.1	284.6	283.2	282.8	277.9	271.3	268.1	266.3	262.9	260.3
165°	280.5	282.1	280.5	279.0	278.6	275.1	270.4	268.1	267.3	265.8	264.6
167.5°	277.6	278.3	277.6	277.0	276.8	274.5	271.4	269.9	269.3	268.0	267.0
170°	276.8	276.8	276.8	276.8	276.8	274.5	271.4	269.9	269.9	269.8	269.7
172.5°	274.6	274.1	274.6	275.2	275.3	273.5	271.1	269.9	269.9	269.9	269.9
175°	273.3	273.3	273.3	273.3	273.3	272.2	270.6	269.9	270.3	271.0	271.5
177.5°	272.2	271.5	272.2	272.8	273.0	272.1	270.9	270.3	270.5	271.1	271.5
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



TEST NUMBER: P933946

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1950.2	1939.3	1939.3	1921.1	1913.8	1908.3	1899.2	1871.9	1864.7	1857.4	1868.3
5°	1966.5	1946.5	1932.0	1899.2	1871.9	1861.0	1826.5	1761.0	1717.3	1684.6	1666.4
7.5°	1970.2	1944.7	1917.4	1866.5	1801.0	1771.9	1666.4	1546.3	1513.5	1484.4	1466.2
10°	1966.5	1937.4	1899.2	1822.8	1668.2	1617.2	1511.7	1433.5	1413.5	1408.0	1413.5
12.5°	1953.8	1926.5	1873.8	1746.4	1529.9	1495.4	1433.5	1388.0	1384.4	1393.5	1442.6
15°	1932.0	1906.5	1844.7	1644.5	1453.5	1428.0	1384.4	1368.0	1388.0	1451.7	1599.1
17.5°	1910.1	1881.0	1804.6	1544.5	1395.3	1377.1	1346.2	1378.9	1491.7	1577.2	1626.3
20°	1881.0	1846.5	1759.1	1471.7	1353.4	1337.1	1322.5	1469.9	1555.4	1586.3	1613.6
22.5°	1846.5	1810.1	1697.3	1420.8	1309.8	1297.1	1306.1	1520.8	1555.4	1577.2	1600.9
25°	1801.0	1770.1	1624.5	1380.7	1275.2	1260.7	1295.2	1515.4	1535.4	1540.8	1588.1
27.5°	1759.1	1719.1	1548.1	1344.4	1233.4	1227.9	1304.3	1491.7	1506.3	1511.7	1562.7
30°	1708.2	1648.2	1462.6	1306.1	1189.7	1187.9	1306.1	1462.6	1459.0	1473.5	1524.5
32.5°	1655.4	1542.7	1366.2	1258.8	1147.9	1146.1	1293.4	1418.9	1415.3	1435.3	1473.5
35°	1606.3	1460.8	1235.2	1204.3	1095.1	1096.9	1262.5	1368.0	1369.8	1388.0	1411.7
37.5°	1555.4	1389.8	1091.5	1144.2	1044.3	1044.3	1220.6	1320.7	1317.1	1322.5	1355.3
40°	1495.4	1278.9	964.2	1066.1	997.0	991.5	1169.7	1269.8	1257.0	1255.2	1300.7
42.5°	1431.7	1157.0	869.6	962.4	942.4	935.1	1107.8	1207.9	1184.3	1189.7	1247.9
45°	1362.5	1124.2	796.8	813.2	886.0	880.5	1040.6	1137.0	1120.6	1135.1	1195.2
47.5°	1293.4	1058.8	773.2	675.0	826.0	824.1	966.0	1067.9	1058.8	1073.4	1137.0
50°	1198.8	986.0	771.4	578.5	758.6	765.9	876.9	1000.6	1000.6	1013.3	1080.6
52.5°	1077.0	896.9	700.4	524.0	680.4	702.2	798.7	942.4	946.0	958.8	1018.8
55°	966.0	804.1	649.5	482.1	587.6	634.9	722.3	882.3	889.6	902.4	956.9
57.5°	864.2	669.5	638.6	433.0	502.1	547.6	654.9	824.1	827.8	838.7	891.4
60°	755.0	483.9	585.8	380.2	427.5	462.1	593.1	755.0	767.7	775.0	820.5
62.5°	631.3	351.1	531.2	343.8	391.1	398.4	542.1	689.5	705.9	711.3	738.6
65°	449.4	294.7	451.2	312.9	352.9	354.8	487.6	622.2	636.7	645.8	665.9
67.5°	303.8	240.1	343.8	283.8	323.8	325.7	434.8	544.0	564.0	571.3	584.0
70°	211.0	160.1	254.7	252.9	291.1	294.7	378.4	473.0	491.2	496.7	503.9
72.5°	154.6	129.2	211.0	227.4	256.5	260.2	320.2	393.0	411.2	416.6	420.3
75°	118.3	136.4	171.0	198.3	218.3	220.1	262.0	320.2	332.9	336.6	338.4
77.5°	94.6	127.3	125.5	160.1	178.3	174.7	205.6	247.4	258.3	258.3	258.3
80°	71.0	100.1	94.6	114.6	131.0	127.3	147.4	176.5	180.1	183.7	181.9
82.5°	52.8	63.7	63.7	72.8	87.3	83.7	98.2	114.6	114.6	114.6	118.3
85°	32.7	36.4	29.1	38.2	49.1	47.3	54.6	61.9	63.7	63.7	60.0
87.5°	20.0	16.4	9.1	14.6	21.8	21.8	25.5	27.3	25.5	25.5	25.5
90°	4.7	3.3	1.8	3.3	4.7	5.1	8.0	11.9	13.8	12.3	9.2
92.5°	32.1	19.6	7.3	19.6	32.1	35.2	49.5	68.5	78.0	68.3	49.1
95°	62.9	40.1	17.5	40.1	62.9	68.5	121.6	192.5	228.0	203.4	154.4
97.5°	70.2	50.3	30.3	50.3	70.2	75.2	163.8	282.0	341.1	325.7	294.6
100°	76.3	58.2	40.1	58.2	76.3	80.9	179.2	310.3	375.9	377.0	379.3
102.5°	82.3	65.4	48.5	65.4	82.3	86.5	186.3	319.3	385.8	405.5	445.0
105°	91.4	77.0	62.7	77.0	91.4	95.0	191.6	320.3	384.7	429.0	517.6
107.5°	104.0	90.6	77.2	90.6	104.0	107.3	192.5	306.0	362.8	424.5	548.1
110°	111.2	99.2	87.1	99.2	111.2	114.3	191.0	293.4	344.6	413.6	551.8



TEST NUMBER: P933946

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	119.7	108.2	96.8	108.2	119.7	122.6	191.1	282.4	328.0	398.7	540.1
115°	132.5	121.9	111.3	121.9	132.5	135.2	192.8	269.7	308.1	376.2	512.5
117.5°	145.0	135.4	125.7	135.4	145.0	147.5	196.5	261.8	294.4	355.9	478.8
120°	152.3	143.2	134.1	143.2	152.3	154.5	199.4	259.2	289.0	345.1	457.5
122.5°	160.6	151.5	142.3	151.5	160.6	162.9	203.6	257.7	284.8	335.4	436.5
125°	171.6	163.3	154.9	163.3	171.6	173.6	209.2	256.6	280.3	323.2	409.2
127.5°	181.9	173.5	165.1	173.5	181.9	184.0	214.9	255.9	276.4	313.4	387.1
130°	188.7	179.7	170.6	179.7	188.7	190.9	218.9	256.3	275.0	307.8	373.5
132.5°	194.3	185.3	176.2	185.3	194.3	196.6	222.3	256.6	273.7	303.1	361.9
135°	201.1	192.8	184.6	192.8	201.1	203.2	226.0	256.3	271.5	296.2	345.4
137.5°	209.5	201.3	193.1	201.3	209.5	211.6	231.4	257.9	271.2	292.0	333.6
140°	215.3	207.8	200.2	207.8	215.3	217.2	234.8	258.2	269.9	287.9	323.8
142.5°	219.7	212.7	205.8	212.7	219.7	221.4	237.6	259.2	269.9	285.7	317.3
145°	226.2	220.2	214.1	220.2	226.2	227.8	241.2	259.2	268.1	281.0	306.8
147.5°	234.3	228.4	222.5	228.4	234.3	235.8	246.5	260.9	268.1	278.3	298.5
150°	238.6	233.3	228.0	233.3	238.6	240.0	249.3	261.8	268.1	276.6	293.8
152.5°	241.7	237.6	233.6	237.6	241.7	242.7	251.2	262.4	268.1	275.3	290.0
155°	248.0	245.0	242.0	245.0	248.0	248.7	255.2	263.8	268.1	273.9	285.5
157.5°	254.0	251.1	248.1	251.1	254.0	254.7	259.2	265.1	268.1	272.6	281.6
160°	256.9	254.6	252.3	254.6	256.9	257.4	261.0	265.7	268.1	272.0	279.7
162.5°	259.9	258.2	256.5	258.2	259.9	260.3	262.9	266.3	268.1	271.3	277.9
165°	264.2	262.7	261.2	262.7	264.2	264.6	265.8	267.3	268.1	270.4	275.1
167.5°	266.8	266.1	265.3	266.1	266.8	267.0	268.0	269.3	269.9	271.4	274.5
170°	269.5	268.8	268.1	268.8	269.5	269.7	269.8	269.9	269.9	271.4	274.5
172.5°	269.9	269.7	269.5	269.7	269.9	269.9	269.9	269.9	269.9	271.1	273.5
175°	271.5	271.5	271.5	271.5	271.5	271.5	271.0	270.3	269.9	270.6	272.2
177.5°	271.5	271.5	271.5	271.5	271.5	271.5	271.1	270.5	270.3	270.9	272.1
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



TEST NUMBER: P933946

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1855.6	1850.1	1857.4	1837.4	1857.4	1850.1	1855.6	1868.3	1857.4	1864.7	1871.9
5°	1628.2	1619.1	1590.0	1566.3	1590.0	1619.1	1628.2	1666.4	1684.6	1717.3	1761.0
7.5°	1455.3	1448.1	1440.8	1426.2	1440.8	1448.1	1455.3	1466.2	1484.4	1513.5	1546.3
10°	1417.1	1418.9	1429.9	1428.0	1429.9	1418.9	1417.1	1413.5	1408.0	1413.5	1433.5
12.5°	1515.4	1531.7	1591.8	1588.1	1591.8	1531.7	1515.4	1442.6	1393.5	1384.4	1388.0
15°	1628.2	1633.6	1646.4	1648.2	1646.4	1633.6	1628.2	1599.1	1451.7	1388.0	1368.0
17.5°	1639.1	1640.9	1650.0	1650.0	1650.0	1640.9	1639.1	1626.3	1577.2	1491.7	1378.9
20°	1630.0	1633.6	1651.8	1655.4	1651.8	1633.6	1630.0	1613.6	1586.3	1555.4	1469.9
22.5°	1626.3	1633.6	1648.2	1646.4	1648.2	1633.6	1626.3	1600.9	1577.2	1555.4	1520.8
25°	1608.1	1608.1	1610.0	1611.8	1610.0	1608.1	1608.1	1588.1	1540.8	1535.4	1515.4
27.5°	1569.9	1573.6	1584.5	1582.7	1584.5	1573.6	1569.9	1562.7	1511.7	1506.3	1491.7
30°	1535.4	1531.7	1522.6	1515.4	1522.6	1531.7	1535.4	1524.5	1473.5	1459.0	1462.6
32.5°	1477.2	1468.1	1459.0	1453.5	1459.0	1468.1	1477.2	1473.5	1435.3	1415.3	1418.9
35°	1408.0	1409.8	1408.0	1402.6	1408.0	1409.8	1408.0	1411.7	1388.0	1369.8	1368.0
37.5°	1358.9	1362.5	1360.7	1353.4	1360.7	1362.5	1358.9	1355.3	1322.5	1317.1	1320.7
40°	1308.0	1309.8	1308.0	1302.5	1308.0	1309.8	1308.0	1300.7	1255.2	1257.0	1269.8
42.5°	1258.8	1257.0	1251.6	1247.9	1251.6	1257.0	1258.8	1247.9	1189.7	1184.3	1207.9
45°	1202.4	1204.3	1193.4	1187.9	1193.4	1204.3	1202.4	1195.2	1135.1	1120.6	1137.0
47.5°	1146.1	1146.1	1137.0	1131.5	1137.0	1146.1	1146.1	1137.0	1073.4	1058.8	1067.9
50°	1086.0	1084.3	1071.6	1069.7	1071.6	1084.3	1086.0	1080.6	1013.3	1000.6	1000.6
52.5°	1017.0	1017.0	1018.8	1022.4	1018.8	1017.0	1017.0	1018.8	958.8	946.0	942.4
55°	956.9	958.8	971.5	975.1	971.5	958.8	956.9	956.9	902.4	889.6	882.3
57.5°	895.1	895.1	904.2	904.2	904.2	895.1	895.1	891.4	838.7	827.8	824.1
60°	824.1	827.8	835.0	833.2	835.0	827.8	824.1	820.5	775.0	767.7	755.0
62.5°	749.5	753.2	755.0	751.4	755.0	753.2	749.5	738.6	711.3	705.9	689.5
65°	671.3	675.0	676.8	673.1	676.8	675.0	671.3	665.9	645.8	636.7	622.2
67.5°	591.3	589.4	587.6	594.9	587.6	589.4	591.3	584.0	571.3	564.0	544.0
70°	509.4	509.4	507.6	511.2	507.6	509.4	509.4	503.9	496.7	491.2	473.0
72.5°	422.1	420.3	427.5	422.1	427.5	420.3	422.1	420.3	416.6	411.2	393.0
75°	336.6	340.2	336.6	342.0	336.6	340.2	336.6	338.4	336.6	332.9	320.2
77.5°	256.5	260.2	256.5	256.5	256.5	260.2	256.5	258.3	258.3	258.3	247.4
80°	181.9	180.1	180.1	178.3	180.1	180.1	181.9	181.9	183.7	180.1	176.5
82.5°	116.4	114.6	114.6	118.3	114.6	114.6	116.4	118.3	114.6	114.6	114.6
85°	63.7	65.5	61.9	61.9	61.9	65.5	63.7	60.0	63.7	63.7	61.9
87.5°	23.7	21.8	21.8	21.8	21.8	21.8	23.7	25.5	25.5	25.5	27.3
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.8	11.9
92.5°	34.7	33.3	27.7	22.2	27.7	33.3	34.7	49.1	68.3	78.0	68.5
95°	117.5	113.3	96.7	80.0	96.7	113.3	117.5	154.4	203.4	228.0	192.5
97.5°	271.3	263.4	231.6	199.8	231.6	263.4	271.3	294.6	325.7	341.1	282.0
100°	381.0	371.6	333.7	295.9	333.7	371.6	381.0	379.3	377.0	375.9	310.3
102.5°	474.6	466.6	434.2	401.8	434.2	466.6	474.6	445.0	405.5	385.8	319.3
105°	584.0	579.6	562.2	544.8	562.2	579.6	584.0	517.6	429.0	384.7	320.3
107.5°	640.8	641.9	646.1	650.3	646.1	641.9	640.8	548.1	424.5	362.8	306.0
110°	655.4	659.9	678.0	696.2	678.0	659.9	655.4	551.8	413.6	344.6	293.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	646.1	653.1	681.0	708.8	681.0	653.1	646.1	540.1	398.7	328.0	282.4
115°	614.6	624.3	662.9	701.5	662.9	624.3	614.6	512.5	376.2	308.1	269.7
117.5°	571.1	581.8	624.6	667.5	624.6	581.8	571.1	478.8	355.9	294.4	261.8
120°	541.7	552.1	593.7	635.4	593.7	552.1	541.7	457.5	345.1	289.0	259.2
122.5°	512.4	522.7	563.7	604.7	563.7	522.7	512.4	436.5	335.4	284.8	257.7
125°	473.6	483.0	520.9	558.7	520.9	483.0	473.6	409.2	323.2	280.3	256.6
127.5°	442.4	450.5	482.3	514.2	482.3	450.5	442.4	387.1	313.4	276.4	255.9
130°	422.7	430.1	459.5	489.0	459.5	430.1	422.7	373.5	307.8	275.0	256.3
132.5°	406.0	412.6	439.0	465.4	439.0	412.6	406.0	361.9	303.1	273.7	256.6
135°	382.3	388.0	410.7	433.4	410.7	388.0	382.3	345.4	296.2	271.5	256.3
137.5°	364.8	369.4	388.1	406.7	388.1	369.4	364.8	333.6	292.0	271.2	257.9
140°	350.8	355.1	372.5	390.0	372.5	355.1	350.8	323.8	287.9	269.9	258.2
142.5°	340.9	344.7	359.7	374.6	359.7	344.7	340.9	317.3	285.7	269.9	259.2
145°	326.2	329.0	340.4	351.7	340.4	329.0	326.2	306.8	281.0	268.1	259.2
147.5°	313.7	316.1	325.5	334.9	325.5	316.1	313.7	298.5	278.3	268.1	260.9
150°	306.6	308.5	316.2	323.8	316.2	308.5	306.6	293.8	276.6	268.1	261.8
152.5°	301.0	302.5	308.2	313.9	308.2	302.5	301.0	290.0	275.3	268.1	262.4
155°	294.3	295.2	299.0	302.8	299.0	295.2	294.3	285.5	273.9	268.1	263.8
157.5°	288.4	289.1	291.8	294.4	291.8	289.1	288.4	281.6	272.6	268.1	265.1
160°	285.5	285.9	287.4	289.0	287.4	285.9	285.5	279.7	272.0	268.1	265.7
162.5°	282.8	283.2	284.6	286.1	284.6	283.2	282.8	277.9	271.3	268.1	266.3
165°	278.6	279.0	280.5	282.1	280.5	279.0	278.6	275.1	270.4	268.1	267.3
167.5°	276.8	277.0	277.6	278.3	277.6	277.0	276.8	274.5	271.4	269.9	269.3
170°	276.8	276.8	276.8	276.8	276.8	276.8	276.8	274.5	271.4	269.9	269.9
172.5°	275.3	275.2	274.6	274.1	274.6	275.2	275.3	273.5	271.1	269.9	269.9
175°	273.3	273.3	273.3	273.3	273.3	273.3	273.3	272.2	270.6	269.9	270.3
177.5°	273.0	272.8	272.2	271.5	272.2	272.8	273.0	272.1	270.9	270.3	270.5
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



TEST NUMBER: P933946

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1899.2	1908.3	1913.8	1921.1	1939.3
5°	1826.5	1861.0	1871.9	1899.2	1932.0
7.5°	1666.4	1771.9	1801.0	1866.5	1917.4
10°	1511.7	1617.2	1668.2	1822.8	1899.2
12.5°	1433.5	1495.4	1529.9	1746.4	1873.8
15°	1384.4	1428.0	1453.5	1644.5	1844.7
17.5°	1346.2	1377.1	1395.3	1544.5	1804.6
20°	1322.5	1337.1	1353.4	1471.7	1759.1
22.5°	1306.1	1297.1	1309.8	1420.8	1697.3
25°	1295.2	1260.7	1275.2	1380.7	1624.5
27.5°	1304.3	1227.9	1233.4	1344.4	1548.1
30°	1306.1	1187.9	1189.7	1306.1	1462.6
32.5°	1293.4	1146.1	1147.9	1258.8	1366.2
35°	1262.5	1096.9	1095.1	1204.3	1235.2
37.5°	1220.6	1044.3	1044.3	1144.2	1091.5
40°	1169.7	991.5	997.0	1066.1	964.2
42.5°	1107.8	935.1	942.4	962.4	869.6
45°	1040.6	880.5	886.0	813.2	796.8
47.5°	966.0	824.1	826.0	675.0	773.2
50°	876.9	765.9	758.6	578.5	771.4
52.5°	798.7	702.2	680.4	524.0	700.4
55°	722.3	634.9	587.6	482.1	649.5
57.5°	654.9	547.6	502.1	433.0	638.6
60°	593.1	462.1	427.5	380.2	585.8
62.5°	542.1	398.4	391.1	343.8	531.2
65°	487.6	354.8	352.9	312.9	451.2
67.5°	434.8	325.7	323.8	283.8	343.8
70°	378.4	294.7	291.1	252.9	254.7
72.5°	320.2	260.2	256.5	227.4	211.0
75°	262.0	220.1	218.3	198.3	171.0
77.5°	205.6	174.7	178.3	160.1	125.5
80°	147.4	127.3	131.0	114.6	94.6
82.5°	98.2	83.7	87.3	72.8	63.7
85°	54.6	47.3	49.1	38.2	29.1
87.5°	25.5	21.8	21.8	14.6	9.1
90°	8.0	5.1	4.7	3.3	1.8
92.5°	49.5	35.2	32.1	19.6	7.3
95°	121.6	68.5	62.9	40.1	17.5
97.5°	163.8	75.2	70.2	50.3	30.3
100°	179.2	80.9	76.3	58.2	40.1
102.5°	186.3	86.5	82.3	65.4	48.5
105°	191.6	95.0	91.4	77.0	62.7
107.5°	192.5	107.3	104.0	90.6	77.2
110°	191.0	114.3	111.2	99.2	87.1



TEST NUMBER: P933946

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	191.1	122.6	119.7	108.2	96.8
115°	192.8	135.2	132.5	121.9	111.3
117.5°	196.5	147.5	145.0	135.4	125.7
120°	199.4	154.5	152.3	143.2	134.1
122.5°	203.6	162.9	160.6	151.5	142.3
125°	209.2	173.6	171.6	163.3	154.9
127.5°	214.9	184.0	181.9	173.5	165.1
130°	218.9	190.9	188.7	179.7	170.6
132.5°	222.3	196.6	194.3	185.3	176.2
135°	226.0	203.2	201.1	192.8	184.6
137.5°	231.4	211.6	209.5	201.3	193.1
140°	234.8	217.2	215.3	207.8	200.2
142.5°	237.6	221.4	219.7	212.7	205.8
145°	241.2	227.8	226.2	220.2	214.1
147.5°	246.5	235.8	234.3	228.4	222.5
150°	249.3	240.0	238.6	233.3	228.0
152.5°	251.2	242.7	241.7	237.6	233.6
155°	255.2	248.7	248.0	245.0	242.0
157.5°	259.2	254.7	254.0	251.1	248.1
160°	261.0	257.4	256.9	254.6	252.3
162.5°	262.9	260.3	259.9	258.2	256.5
165°	265.8	264.6	264.2	262.7	261.2
167.5°	268.0	267.0	266.8	266.1	265.3
170°	269.8	269.7	269.5	268.8	268.1
172.5°	269.9	269.9	269.9	269.7	269.5
175°	271.0	271.5	271.5	271.5	271.5
177.5°	271.1	271.5	271.5	271.5	271.5
180°	271.5	271.5	271.5	271.5	271.5



TEST NUMBER: P933946

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-4000K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.38	15.50	15.10	16.24	17.13	17.21	18.34	17.93	19.08	19.96
	3H	14.87	15.89	15.61	16.64	17.55	18.58	19.59	19.32	20.34	21.26
	4H	15.08	16.03	15.83	16.79	17.72	19.04	19.99	19.79	20.75	21.68
	6H	15.21	16.09	15.97	16.86	17.80	19.34	20.22	20.11	20.99	21.93
	8H	15.22	16.06	15.99	16.85	17.79	19.42	20.26	20.20	21.05	21.99
	12H	15.20	16.00	15.98	16.78	17.75	19.47	20.27	20.25	21.06	22.03
4H	2H	15.44	16.40	16.20	17.16	18.08	17.65	18.61	18.41	19.37	20.30
	3H	16.49	17.29	17.26	18.09	19.03	19.19	19.98	19.96	20.78	21.72
	4H	16.78	17.50	17.57	18.30	19.27	19.73	20.45	20.51	21.25	22.22
	6H	16.92	17.55	17.72	18.37	19.35	20.11	20.74	20.91	21.56	22.54
	8H	16.93	17.52	17.74	18.33	19.33	20.22	20.81	21.03	21.63	22.62
	12H	16.91	17.44	17.74	18.28	19.27	20.29	20.82	21.12	21.66	22.66
8H	4H	17.26	17.84	18.06	18.66	19.65	19.87	20.46	20.68	21.27	22.27
	6H	17.53	18.01	18.36	18.87	19.87	20.32	20.81	21.16	21.67	22.66
	8H	17.57	18.01	18.42	18.86	19.87	20.48	20.91	21.32	21.77	22.77
	12H	17.57	17.95	18.42	18.80	19.86	20.59	20.97	21.44	21.82	22.88
12H	4H	17.28	17.80	18.10	18.64	19.64	19.85	20.38	20.68	21.22	22.21
	6H	17.59	18.02	18.44	18.88	19.89	20.32	20.75	21.17	21.61	22.62
	8H	17.67	18.05	18.52	18.90	19.96	20.50	20.88	21.35	21.72	22.79