

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: P933965

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

**Test Information**

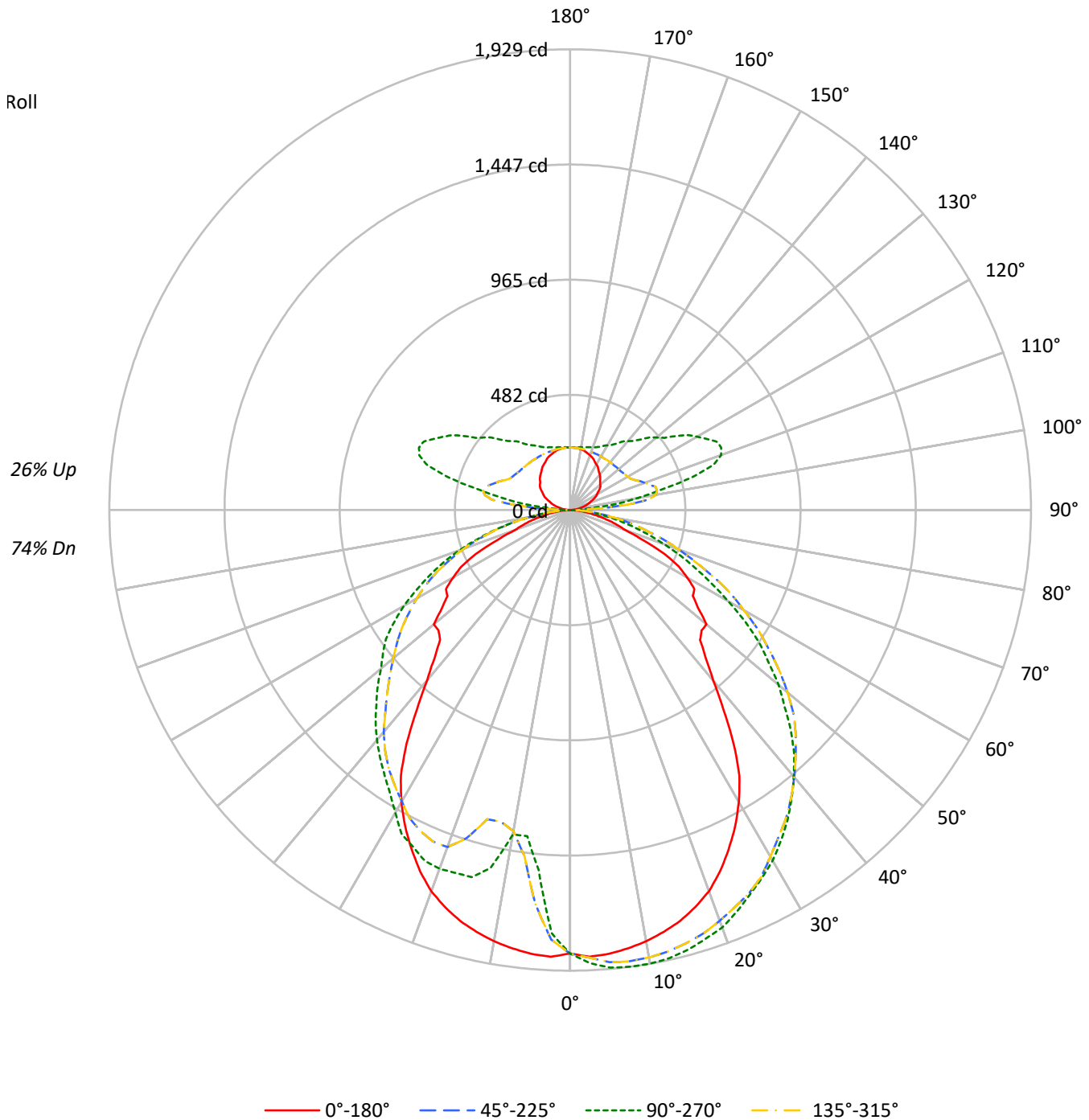
Test Method: LM-79-2019  
Report Number: P933965  
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6514.4 lumens  
Efficiency: N/A  
Efficacy: 108.6 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





TEST NUMBER: P933965

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

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

	0°	90°	180°	270°
0°	8614	8614	8614	8614
5°	8678	8696	8678	6837
10°	8620	8566	8620	6123
15°	8527	8380	8527	6997
20°	8348	8160	8348	7012
25°	7984	7839	7984	6863
30°	7511	7573	7511	6537
35°	6696	7236	6696	6179
40°	5580	6840	5580	5907
45°	4986	6376	4986	5596
50°	5297	5823	5297	5284
55°	4984	5227	4984	5103
60°	5137	4439	5137	4674
65°	4657	3669	4657	4102
70°	3225	2924	3225	3438
75°	2828	2162	2828	2588
80°	2278	1429	2278	1556
85°	1309	757	1309	643

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7641 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.6	2.6
10°-20°	475.8	7.3
20°-30°	735.6	11.3
30°-40°	878.1	13.5
40°-50°	883.3	13.6
50°-60°	768.6	11.8
60°-70°	544.9	8.4
70°-80°	288.3	4.4
80°-90°	72.8	1.1
90°-100°	127.8	2.0
100°-110°	336.0	5.2
110°-120°	348.3	5.3
120°-130°	279.4	4.3
130°-140°	219.2	3.4
140°-150°	168.3	2.6
150°-160°	121.2	1.9
160°-170°	74.2	1.1
170°-180°	25.1	0.4
0°-30°	1379.0	21.2
0°-40°	2257.1	34.6
0°-60°	3908.9	60.0
0°-90°	4815.0	73.9
90°-120°	812.1	12.5
90°-150°	1479.0	22.7
90°-180°	1699.0	26.1
0°-180°	6514.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1857	1857	1857	1857	1857	
5°	1865	1923	1865	1512	1865	177
15°	1781	1906	1781	1591	1781	501
25°	1569	1778	1569	1556	1569	720
35°	1193	1586	1193	1354	1193	738
45°	769	1307	769	1147	769	616
55°	627	964	627	942	627	576
65°	436	581	436	650	436	416
75°	165	276	165	330	165	174
85°	28	70	28	60	28	38
90°	2	7	2	7	2	3
95°	17	77	17	77	17	19
105°	60	526	60	526	60	64
115°	108	677	108	677	108	106
125°	150	540	150	540	150	133
135°	178	418	178	418	178	138
145°	207	340	207	340	207	130
155°	234	292	234	292	234	107
165°	252	272	252	272	252	71
175°	262	264	262	264	262	25
180°	262	262	262	262	262	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1872.4	1872.4	1883.0	1886.5	1886.5	1881.2	1876.0	1881.2	1897.0	1902.3	1900.6
5°	1865.4	1879.5	1898.8	1902.3	1905.8	1904.1	1900.6	1904.1	1921.6	1925.1	1926.9
7.5°	1851.4	1877.7	1902.3	1907.6	1912.9	1907.6	1905.8	1909.3	1926.9	1930.4	1930.4
10°	1833.8	1870.7	1898.8	1902.3	1907.6	1902.3	1902.3	1909.3	1926.9	1930.4	1932.2
12.5°	1809.2	1860.2	1886.5	1890.0	1897.0	1895.3	1893.5	1900.6	1918.1	1921.6	1921.6
15°	1781.1	1840.8	1865.4	1868.9	1881.2	1877.7	1877.7	1884.7	1904.1	1909.3	1907.6
17.5°	1742.5	1816.2	1844.3	1849.6	1858.4	1856.6	1858.4	1865.4	1883.0	1886.5	1888.3
20°	1698.5	1782.9	1816.2	1821.5	1830.3	1830.3	1830.3	1839.1	1856.6	1863.7	1863.7
22.5°	1638.8	1747.7	1782.9	1786.4	1796.9	1796.9	1800.4	1812.7	1828.5	1830.3	1830.3
25°	1568.6	1709.1	1738.9	1749.5	1760.0	1765.3	1770.6	1777.6	1782.9	1781.1	1782.9
27.5°	1494.8	1659.9	1698.5	1705.6	1719.6	1724.9	1731.9	1733.7	1735.4	1740.7	1737.2
30°	1412.2	1591.4	1649.4	1656.4	1679.2	1682.7	1675.7	1679.2	1688.0	1691.5	1695.0
32.5°	1319.1	1489.5	1598.4	1614.2	1635.3	1624.8	1623.0	1628.3	1642.3	1642.3	1645.8
35°	1192.6	1410.5	1551.0	1565.0	1580.9	1568.6	1575.6	1577.3	1586.1	1591.4	1589.6
37.5°	1053.9	1342.0	1501.8	1512.3	1524.6	1508.8	1519.4	1524.6	1531.7	1528.2	1528.2
40°	931.0	1234.8	1443.8	1450.9	1461.4	1449.1	1459.6	1463.2	1466.7	1463.2	1461.4
42.5°	839.7	1117.1	1382.4	1391.1	1384.1	1392.9	1396.4	1403.4	1398.2	1391.1	1391.1
45°	769.4	1085.5	1315.6	1326.1	1315.6	1329.7	1334.9	1334.9	1319.1	1315.6	1313.9
47.5°	746.6	1022.3	1248.9	1248.9	1243.6	1261.2	1269.9	1257.6	1241.8	1236.6	1236.6
50°	744.8	952.1	1157.5	1150.5	1175.1	1196.2	1187.4	1175.1	1162.8	1143.5	1143.5
52.5°	676.3	866.0	1039.9	1066.2	1104.8	1117.1	1103.1	1090.8	1069.7	1060.9	1053.9
55°	627.1	776.4	932.8	985.5	1025.9	1041.7	1015.3	1003.0	971.4	966.1	962.6
57.5°	616.6	646.4	834.4	901.1	950.3	948.6	932.8	909.9	883.6	878.3	876.5
60°	565.6	467.3	729.0	808.0	859.0	853.7	839.7	818.6	794.0	790.5	787.0
62.5°	512.9	339.0	609.5	699.1	771.1	769.4	757.1	725.5	707.9	699.1	692.1
65°	435.6	284.6	433.9	581.4	685.1	688.6	662.2	639.4	620.1	609.5	607.8
67.5°	332.0	231.9	293.4	484.8	602.5	599.0	565.6	555.1	530.5	525.2	514.7
70°	245.9	154.6	203.8	393.5	521.7	512.9	486.6	474.3	451.4	439.2	432.1
72.5°	203.8	124.7	149.3	305.6	439.2	428.6	405.8	391.7	372.4	361.9	354.8
75°	165.1	131.7	114.2	226.6	356.6	349.6	328.5	314.4	298.6	284.6	286.3
77.5°	121.2	123.0	91.3	166.9	282.8	272.3	260.0	242.4	235.4	221.3	221.3
80°	91.3	96.6	68.5	114.2	203.8	203.8	193.2	180.9	168.6	161.6	161.6
82.5°	61.5	61.5	50.9	72.0	138.8	133.5	126.5	123.0	115.9	112.4	112.4
85°	28.1	35.1	31.6	43.9	75.5	79.0	79.0	75.5	73.8	70.3	72.0
87.5°	8.8	15.8	19.3	24.6	38.6	40.4	42.2	42.2	42.2	43.9	43.9
90°	1.8	3.2	4.6	4.9	7.7	11.5	13.4	11.9	8.9	6.7	6.7
92.5°	7.0	19.0	31.0	34.0	47.8	66.1	75.3	66.0	47.4	33.5	32.1
95°	16.9	38.7	60.7	66.1	117.4	185.8	220.1	196.4	149.0	113.5	109.4
97.5°	29.2	48.6	67.8	72.6	158.2	272.3	329.4	314.4	284.5	262.0	254.4
100°	38.7	56.2	73.7	78.1	173.0	299.6	362.9	364.1	366.3	367.9	358.8
102.5°	46.8	63.1	79.5	83.5	179.9	308.3	372.5	391.5	429.7	458.3	450.5
105°	60.5	74.4	88.3	91.7	185.0	309.2	371.4	414.2	499.8	563.9	559.7
107.5°	74.6	87.5	100.4	103.6	185.8	295.5	350.3	409.9	529.3	618.8	619.8
110°	84.1	95.7	107.4	110.3	184.4	283.3	332.7	399.4	532.8	632.8	637.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	93.5	104.5	115.6	118.4	184.5	272.6	316.7	385.0	521.4	623.9	630.6
115°	107.5	117.7	128.0	130.5	186.2	260.4	297.5	363.3	494.8	593.5	602.8
117.5°	121.4	130.7	140.0	142.4	189.7	252.8	284.3	343.7	462.3	551.4	561.8
120°	129.5	138.2	147.0	149.2	192.5	250.2	279.0	333.2	441.7	523.0	533.0
122.5°	137.4	146.2	155.1	157.3	196.6	248.8	275.0	323.8	421.5	494.7	504.7
125°	149.6	157.7	165.6	167.7	202.0	247.8	270.6	312.1	395.1	457.2	466.4
127.5°	159.4	167.5	175.7	177.7	207.5	247.1	266.9	302.6	373.8	427.2	434.9
130°	164.7	173.5	182.2	184.4	211.4	247.5	265.5	297.2	360.6	408.1	415.3
132.5°	170.1	178.9	187.6	189.8	214.7	247.8	264.3	292.6	349.4	392.0	398.4
135°	178.2	186.2	194.2	196.2	218.2	247.5	262.2	286.0	333.5	369.1	374.6
137.5°	186.5	194.4	202.3	204.3	223.4	249.0	261.8	281.9	322.1	352.2	356.7
140°	193.3	200.6	207.9	209.7	226.7	249.3	260.6	278.0	312.7	338.7	342.9
142.5°	198.7	205.3	212.1	213.8	229.4	250.2	260.6	275.9	306.4	329.2	332.8
145°	206.8	212.6	218.4	219.9	232.9	250.2	258.8	271.3	296.3	315.0	317.7
147.5°	214.8	220.5	226.3	227.7	238.0	251.9	258.8	268.7	288.3	302.9	305.2
150°	220.1	225.3	230.4	231.7	240.7	252.8	258.8	267.1	283.7	296.1	297.9
152.5°	225.5	229.4	233.4	234.3	242.5	253.4	258.8	265.9	280.0	290.6	292.0
155°	233.6	236.5	239.4	240.1	246.4	254.7	258.8	264.5	275.7	284.1	285.0
157.5°	239.6	242.4	245.2	245.9	250.2	255.9	258.8	263.2	271.9	278.5	279.1
160°	243.6	245.8	248.0	248.6	252.0	256.6	258.8	262.6	270.1	275.7	276.1
162.5°	247.7	249.3	250.9	251.4	253.8	257.2	258.8	262.0	268.3	273.1	273.4
165°	252.2	253.7	255.1	255.5	256.6	258.1	258.8	261.1	265.6	269.0	269.4
167.5°	256.2	256.9	257.6	257.8	258.7	260.0	260.6	262.1	265.1	267.3	267.4
170°	258.8	259.5	260.2	260.4	260.5	260.6	260.6	262.1	265.1	267.3	267.3
172.5°	260.2	260.4	260.6	260.6	260.6	260.6	260.6	261.7	264.1	265.9	265.7
175°	262.2	262.2	262.2	262.2	261.6	260.9	260.6	261.3	262.8	263.9	263.9
177.5°	262.2	262.2	262.2	262.2	261.7	261.2	260.9	261.6	262.7	263.6	263.4
180°	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1904.1	1898.8	1904.1	1900.6	1902.3	1897.0	1881.2	1876.0	1881.2	1886.5	1886.5
5°	1926.9	1923.4	1926.9	1926.9	1925.1	1921.6	1904.1	1900.6	1904.1	1905.8	1902.3
7.5°	1933.9	1928.7	1933.9	1930.4	1930.4	1926.9	1909.3	1905.8	1907.6	1912.9	1907.6
10°	1933.9	1928.7	1933.9	1932.2	1930.4	1926.9	1909.3	1902.3	1902.3	1907.6	1902.3
12.5°	1925.1	1921.6	1925.1	1921.6	1921.6	1918.1	1900.6	1893.5	1895.3	1897.0	1890.0
15°	1911.1	1905.8	1911.1	1907.6	1909.3	1904.1	1884.7	1877.7	1877.7	1881.2	1868.9
17.5°	1890.0	1883.0	1890.0	1888.3	1886.5	1883.0	1865.4	1858.4	1856.6	1858.4	1849.6
20°	1865.4	1860.2	1865.4	1863.7	1863.7	1856.6	1839.1	1830.3	1830.3	1830.3	1821.5
22.5°	1826.8	1821.5	1826.8	1830.3	1830.3	1828.5	1812.7	1800.4	1796.9	1796.9	1786.4
25°	1782.9	1777.6	1782.9	1782.9	1781.1	1782.9	1777.6	1770.6	1765.3	1760.0	1749.5
27.5°	1740.7	1737.2	1740.7	1737.2	1740.7	1735.4	1733.7	1731.9	1724.9	1719.6	1705.6
30°	1698.5	1695.0	1698.5	1695.0	1691.5	1688.0	1679.2	1675.7	1682.7	1679.2	1656.4
32.5°	1645.8	1642.3	1645.8	1645.8	1642.3	1642.3	1628.3	1623.0	1624.8	1635.3	1614.2
35°	1591.4	1586.1	1591.4	1589.6	1591.4	1586.1	1577.3	1575.6	1568.6	1580.9	1565.0
37.5°	1528.2	1522.9	1528.2	1528.2	1528.2	1531.7	1524.6	1519.4	1508.8	1524.6	1512.3
40°	1463.2	1456.1	1463.2	1461.4	1463.2	1466.7	1463.2	1459.6	1449.1	1461.4	1450.9
42.5°	1389.4	1387.6	1389.4	1391.1	1391.1	1398.2	1403.4	1396.4	1392.9	1384.1	1391.1
45°	1310.3	1306.8	1310.3	1313.9	1315.6	1319.1	1334.9	1334.9	1329.7	1315.6	1326.1
47.5°	1226.0	1217.2	1226.0	1236.6	1236.6	1241.8	1257.6	1269.9	1261.2	1243.6	1248.9
50°	1136.4	1138.2	1136.4	1143.5	1143.5	1162.8	1175.1	1187.4	1196.2	1175.1	1150.5
52.5°	1048.6	1046.9	1048.6	1053.9	1060.9	1069.7	1090.8	1103.1	1117.1	1104.8	1066.2
55°	960.9	964.4	960.9	962.6	966.1	971.4	1003.0	1015.3	1041.7	1025.9	985.5
57.5°	873.0	867.8	873.0	876.5	878.3	883.6	909.9	932.8	948.6	950.3	901.1
60°	771.1	764.1	771.1	787.0	790.5	794.0	818.6	839.7	853.7	859.0	808.0
62.5°	681.6	669.3	681.6	692.1	699.1	707.9	725.5	757.1	769.4	771.1	699.1
65°	586.7	581.4	586.7	607.8	609.5	620.1	639.4	662.2	688.6	685.1	581.4
67.5°	500.6	500.6	500.6	514.7	525.2	530.5	555.1	565.6	599.0	602.5	484.8
70°	421.6	419.8	421.6	432.1	439.2	451.4	474.3	486.6	512.9	521.7	393.5
72.5°	346.1	344.3	346.1	354.8	361.9	372.4	391.7	405.8	428.6	439.2	305.6
75°	279.3	275.8	279.3	286.3	284.6	298.6	314.4	328.5	349.6	356.6	226.6
77.5°	214.3	214.3	214.3	221.3	221.3	235.4	242.4	260.0	272.3	282.8	166.9
80°	159.9	158.1	159.9	161.6	161.6	168.6	180.9	193.2	203.8	203.8	114.2
82.5°	112.4	108.9	112.4	112.4	112.4	115.9	123.0	126.5	133.5	138.8	72.0
85°	70.3	70.3	70.3	72.0	70.3	73.8	75.5	79.0	79.0	75.5	43.9
87.5°	45.7	43.9	45.7	43.9	43.9	42.2	42.2	42.2	40.4	38.6	24.6
90°	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5	7.7	4.9
92.5°	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1	47.8	34.0
95°	93.4	77.2	93.4	109.4	113.5	149.0	196.4	220.1	185.8	117.4	66.1
97.5°	223.6	193.0	223.6	254.4	262.0	284.5	314.4	329.4	272.3	158.2	72.6
100°	322.2	285.7	322.2	358.8	367.9	366.3	364.1	362.9	299.6	173.0	78.1
102.5°	419.2	387.9	419.2	450.5	458.3	429.7	391.5	372.5	308.3	179.9	83.5
105°	542.9	526.0	542.9	559.7	563.9	499.8	414.2	371.4	309.2	185.0	91.7
107.5°	623.9	627.9	623.9	619.8	618.8	529.3	409.9	350.3	295.5	185.8	103.6
110°	654.7	672.3	654.7	637.2	632.8	532.8	399.4	332.7	283.3	184.4	110.3





TEST NUMBER: P933965

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	657.5	684.4	657.5	630.6	623.9	521.4	385.0	316.7	272.6	184.5	118.4
115°	640.1	677.3	640.1	602.8	593.5	494.8	363.3	297.5	260.4	186.2	130.5
117.5°	603.1	644.5	603.1	561.8	551.4	462.3	343.7	284.3	252.8	189.7	142.4
120°	573.3	613.5	573.3	533.0	523.0	441.7	333.2	279.0	250.2	192.5	149.2
122.5°	544.3	583.9	544.3	504.7	494.7	421.5	323.8	275.0	248.8	196.6	157.3
125°	502.9	539.5	502.9	466.4	457.2	395.1	312.1	270.6	247.8	202.0	167.7
127.5°	465.7	496.5	465.7	434.9	427.2	373.8	302.6	266.9	247.1	207.5	177.7
130°	443.7	472.2	443.7	415.3	408.1	360.6	297.2	265.5	247.5	211.4	184.4
132.5°	423.9	449.3	423.9	398.4	392.0	349.4	292.6	264.3	247.8	214.7	189.8
135°	396.6	418.5	396.6	374.6	369.1	333.5	286.0	262.2	247.5	218.2	196.2
137.5°	374.7	392.7	374.7	356.7	352.2	322.1	281.9	261.8	249.0	223.4	204.3
140°	359.7	376.5	359.7	342.9	338.7	312.7	278.0	260.6	249.3	226.7	209.7
142.5°	347.3	361.7	347.3	332.8	329.2	306.4	275.9	260.6	250.2	229.4	213.8
145°	328.7	339.6	328.7	317.7	315.0	296.3	271.3	258.8	250.2	232.9	219.9
147.5°	314.3	323.4	314.3	305.2	302.9	288.3	268.7	258.8	251.9	238.0	227.7
150°	305.3	312.7	305.3	297.9	296.1	283.7	267.1	258.8	252.8	240.7	231.7
152.5°	297.6	303.1	297.6	292.0	290.6	280.0	265.9	258.8	253.4	242.5	234.3
155°	288.7	292.4	288.7	285.0	284.1	275.7	264.5	258.8	254.7	246.4	240.1
157.5°	281.8	284.3	281.8	279.1	278.5	271.9	263.2	258.8	255.9	250.2	245.9
160°	277.5	279.0	277.5	276.1	275.7	270.1	262.6	258.8	256.6	252.0	248.6
162.5°	274.8	276.2	274.8	273.4	273.1	268.3	262.0	258.8	257.2	253.8	251.4
165°	270.9	272.4	270.9	269.4	269.0	265.6	261.1	258.8	258.1	256.6	255.5
167.5°	268.1	268.7	268.1	267.4	267.3	265.1	262.1	260.6	260.0	258.7	257.8
170°	267.3	267.3	267.3	267.3	267.3	265.1	262.1	260.6	260.6	260.5	260.4
172.5°	265.2	264.6	265.2	265.7	265.9	264.1	261.7	260.6	260.6	260.6	260.6
175°	263.9	263.9	263.9	263.9	263.9	262.8	261.3	260.6	260.9	261.6	262.2
177.5°	262.8	262.2	262.8	263.4	263.6	262.7	261.6	260.9	261.2	261.7	262.2
180°	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2



TEST NUMBER: P933965

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1883.0	1872.4	1872.4	1854.9	1847.9	1842.6	1833.8	1807.5	1800.4	1793.4	1803.9
5°	1898.8	1879.5	1865.4	1833.8	1807.5	1796.9	1763.5	1700.3	1658.1	1626.5	1609.0
7.5°	1902.3	1877.7	1851.4	1802.2	1738.9	1710.8	1609.0	1493.0	1461.4	1433.3	1415.7
10°	1898.8	1870.7	1833.8	1760.0	1610.7	1561.5	1459.6	1384.1	1364.8	1359.5	1364.8
12.5°	1886.5	1860.2	1809.2	1686.3	1477.2	1443.8	1384.1	1340.2	1336.7	1345.5	1392.9
15°	1865.4	1840.8	1781.1	1587.9	1403.4	1378.8	1336.7	1320.9	1340.2	1401.7	1544.0
17.5°	1844.3	1816.2	1742.5	1491.3	1347.2	1329.7	1299.8	1331.4	1440.3	1522.9	1570.3
20°	1816.2	1782.9	1698.5	1421.0	1306.8	1291.0	1277.0	1419.2	1501.8	1531.7	1558.0
22.5°	1782.9	1747.7	1638.8	1371.8	1264.7	1252.4	1261.2	1468.4	1501.8	1522.9	1545.7
25°	1738.9	1709.1	1568.6	1333.2	1231.3	1217.2	1250.6	1463.2	1482.5	1487.8	1533.4
27.5°	1698.5	1659.9	1494.8	1298.0	1190.9	1185.6	1259.4	1440.3	1454.4	1459.6	1508.8
30°	1649.4	1591.4	1412.2	1261.2	1148.7	1147.0	1261.2	1412.2	1408.7	1422.8	1471.9
32.5°	1598.4	1489.5	1319.1	1215.5	1108.3	1106.6	1248.9	1370.1	1366.5	1385.9	1422.8
35°	1551.0	1410.5	1192.6	1162.8	1057.4	1059.1	1219.0	1320.9	1322.6	1340.2	1363.0
37.5°	1501.8	1342.0	1053.9	1104.8	1008.3	1008.3	1178.6	1275.2	1271.7	1277.0	1308.6
40°	1443.8	1234.8	931.0	1029.4	962.6	957.3	1129.4	1226.0	1213.7	1212.0	1255.9
42.5°	1382.4	1117.1	839.7	929.2	909.9	902.9	1069.7	1166.3	1143.5	1148.7	1204.9
45°	1315.6	1085.5	769.4	785.2	855.5	850.2	1004.8	1097.8	1082.0	1096.0	1154.0
47.5°	1248.9	1022.3	746.6	651.7	797.5	795.7	932.8	1031.1	1022.3	1036.4	1097.8
50°	1157.5	952.1	744.8	558.6	732.5	739.5	846.7	966.1	966.1	978.4	1043.4
52.5°	1039.9	866.0	676.3	505.9	657.0	678.0	771.1	909.9	913.4	925.7	983.7
55°	932.8	776.4	627.1	465.5	567.4	613.1	697.4	852.0	859.0	871.3	924.0
57.5°	834.4	646.4	616.6	418.1	484.8	528.7	632.4	795.7	799.3	809.8	860.7
60°	729.0	467.3	565.6	367.1	412.8	446.2	572.7	729.0	741.3	748.3	792.2
62.5°	609.5	339.0	512.9	332.0	377.7	384.7	523.5	665.8	681.6	686.8	713.2
65°	433.9	284.6	435.6	302.1	340.8	342.5	470.8	600.8	614.8	623.6	642.9
67.5°	293.4	231.9	332.0	274.0	312.7	314.4	419.8	525.2	544.5	551.6	563.9
70°	203.8	154.6	245.9	244.2	281.1	284.6	365.4	456.7	474.3	479.6	486.6
72.5°	149.3	124.7	203.8	219.6	247.7	251.2	309.2	379.4	397.0	402.3	405.8
75°	114.2	131.7	165.1	191.5	210.8	212.5	253.0	309.2	321.5	325.0	326.7
77.5°	91.3	123.0	121.2	154.6	172.1	168.6	198.5	238.9	249.4	249.4	249.4
80°	68.5	96.6	91.3	110.7	126.5	123.0	142.3	170.4	173.9	177.4	175.7
82.5°	50.9	61.5	61.5	70.3	84.3	80.8	94.9	110.7	110.7	110.7	114.2
85°	31.6	35.1	28.1	36.9	47.4	45.7	52.7	59.7	61.5	61.5	58.0
87.5°	19.3	15.8	8.8	14.1	21.1	21.1	24.6	26.3	24.6	24.6	24.6
90°	4.6	3.2	1.8	3.2	4.6	4.9	7.7	11.5	13.4	11.9	8.9
92.5°	31.0	19.0	7.0	19.0	31.0	34.0	47.8	66.1	75.3	66.0	47.4
95°	60.7	38.7	16.9	38.7	60.7	66.1	117.4	185.8	220.1	196.4	149.0
97.5°	67.8	48.6	29.2	48.6	67.8	72.6	158.2	272.3	329.4	314.4	284.5
100°	73.7	56.2	38.7	56.2	73.7	78.1	173.0	299.6	362.9	364.1	366.3
102.5°	79.5	63.1	46.8	63.1	79.5	83.5	179.9	308.3	372.5	391.5	429.7
105°	88.3	74.4	60.5	74.4	88.3	91.7	185.0	309.2	371.4	414.2	499.8
107.5°	100.4	87.5	74.6	87.5	100.4	103.6	185.8	295.5	350.3	409.9	529.3
110°	107.4	95.7	84.1	95.7	107.4	110.3	184.4	283.3	332.7	399.4	532.8



TEST NUMBER: P933965

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	115.6	104.5	93.5	104.5	115.6	118.4	184.5	272.6	316.7	385.0	521.4
115°	128.0	117.7	107.5	117.7	128.0	130.5	186.2	260.4	297.5	363.3	494.8
117.5°	140.0	130.7	121.4	130.7	140.0	142.4	189.7	252.8	284.3	343.7	462.3
120°	147.0	138.2	129.5	138.2	147.0	149.2	192.5	250.2	279.0	333.2	441.7
122.5°	155.1	146.2	137.4	146.2	155.1	157.3	196.6	248.8	275.0	323.8	421.5
125°	165.6	157.7	149.6	157.7	165.6	167.7	202.0	247.8	270.6	312.1	395.1
127.5°	175.7	167.5	159.4	167.5	175.7	177.7	207.5	247.1	266.9	302.6	373.8
130°	182.2	173.5	164.7	173.5	182.2	184.4	211.4	247.5	265.5	297.2	360.6
132.5°	187.6	178.9	170.1	178.9	187.6	189.8	214.7	247.8	264.3	292.6	349.4
135°	194.2	186.2	178.2	186.2	194.2	196.2	218.2	247.5	262.2	286.0	333.5
137.5°	202.3	194.4	186.5	194.4	202.3	204.3	223.4	249.0	261.8	281.9	322.1
140°	207.9	200.6	193.3	200.6	207.9	209.7	226.7	249.3	260.6	278.0	312.7
142.5°	212.1	205.3	198.7	205.3	212.1	213.8	229.4	250.2	260.6	275.9	306.4
145°	218.4	212.6	206.8	212.6	218.4	219.9	232.9	250.2	258.8	271.3	296.3
147.5°	226.3	220.5	214.8	220.5	226.3	227.7	238.0	251.9	258.8	268.7	288.3
150°	230.4	225.3	220.1	225.3	230.4	231.7	240.7	252.8	258.8	267.1	283.7
152.5°	233.4	229.4	225.5	229.4	233.4	234.3	242.5	253.4	258.8	265.9	280.0
155°	239.4	236.5	233.6	236.5	239.4	240.1	246.4	254.7	258.8	264.5	275.7
157.5°	245.2	242.4	239.6	242.4	245.2	245.9	250.2	255.9	258.8	263.2	271.9
160°	248.0	245.8	243.6	245.8	248.0	248.6	252.0	256.6	258.8	262.6	270.1
162.5°	250.9	249.3	247.7	249.3	250.9	251.4	253.8	257.2	258.8	262.0	268.3
165°	255.1	253.7	252.2	253.7	255.1	255.5	256.6	258.1	258.8	261.1	265.6
167.5°	257.6	256.9	256.2	256.9	257.6	257.8	258.7	260.0	260.6	262.1	265.1
170°	260.2	259.5	258.8	259.5	260.2	260.4	260.5	260.6	260.6	262.1	265.1
172.5°	260.6	260.4	260.2	260.4	260.6	260.6	260.6	260.6	260.6	261.7	264.1
175°	262.2	262.2	262.2	262.2	262.2	262.2	261.6	260.9	260.6	261.3	262.8
177.5°	262.2	262.2	262.2	262.2	262.2	262.2	261.7	261.2	260.9	261.6	262.7
180°	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2



TEST NUMBER: P933965

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1791.6	1786.4	1793.4	1774.1	1793.4	1786.4	1791.6	1803.9	1793.4	1800.4	1807.5
5°	1572.1	1563.3	1535.2	1512.3	1535.2	1563.3	1572.1	1609.0	1626.5	1658.1	1700.3
7.5°	1405.2	1398.2	1391.1	1377.1	1391.1	1398.2	1405.2	1415.7	1433.3	1461.4	1493.0
10°	1368.3	1370.1	1380.6	1378.8	1380.6	1370.1	1368.3	1364.8	1359.5	1364.8	1384.1
12.5°	1463.2	1479.0	1536.9	1533.4	1536.9	1479.0	1463.2	1392.9	1345.5	1336.7	1340.2
15°	1572.1	1577.3	1589.6	1591.4	1589.6	1577.3	1572.1	1544.0	1401.7	1340.2	1320.9
17.5°	1582.6	1584.4	1593.2	1593.2	1593.2	1584.4	1582.6	1570.3	1522.9	1440.3	1331.4
20°	1573.8	1577.3	1594.9	1598.4	1594.9	1577.3	1573.8	1558.0	1531.7	1501.8	1419.2
22.5°	1570.3	1577.3	1591.4	1589.6	1591.4	1577.3	1570.3	1545.7	1522.9	1501.8	1468.4
25°	1552.7	1552.7	1554.5	1556.3	1554.5	1552.7	1552.7	1533.4	1487.8	1482.5	1463.2
27.5°	1515.9	1519.4	1529.9	1528.2	1529.9	1519.4	1515.9	1508.8	1459.6	1454.4	1440.3
30°	1482.5	1479.0	1470.2	1463.2	1470.2	1479.0	1482.5	1471.9	1422.8	1408.7	1412.2
32.5°	1426.3	1417.5	1408.7	1403.4	1408.7	1417.5	1426.3	1422.8	1385.9	1366.5	1370.1
35°	1359.5	1361.3	1359.5	1354.3	1359.5	1361.3	1359.5	1363.0	1340.2	1322.6	1320.9
37.5°	1312.1	1315.6	1313.9	1306.8	1313.9	1315.6	1312.1	1308.6	1277.0	1271.7	1275.2
40°	1262.9	1264.7	1262.9	1257.6	1262.9	1264.7	1262.9	1255.9	1212.0	1213.7	1226.0
42.5°	1215.5	1213.7	1208.5	1204.9	1208.5	1213.7	1215.5	1204.9	1148.7	1143.5	1166.3
45°	1161.0	1162.8	1152.2	1147.0	1152.2	1162.8	1161.0	1154.0	1096.0	1082.0	1097.8
47.5°	1106.6	1106.6	1097.8	1092.5	1097.8	1106.6	1106.6	1097.8	1036.4	1022.3	1031.1
50°	1048.6	1046.9	1034.6	1032.9	1034.6	1046.9	1048.6	1043.4	978.4	966.1	966.1
52.5°	981.9	981.9	983.7	987.2	983.7	981.9	981.9	983.7	925.7	913.4	909.9
55°	924.0	925.7	938.0	941.5	938.0	925.7	924.0	924.0	871.3	859.0	852.0
57.5°	864.2	864.2	873.0	873.0	873.0	864.2	864.2	860.7	809.8	799.3	795.7
60°	795.7	799.3	806.3	804.5	806.3	799.3	795.7	792.2	748.3	741.3	729.0
62.5°	723.7	727.2	729.0	725.5	729.0	727.2	723.7	713.2	686.8	681.6	665.8
65°	648.2	651.7	653.5	649.9	653.5	651.7	648.2	642.9	623.6	614.8	600.8
67.5°	570.9	569.1	567.4	574.4	567.4	569.1	570.9	563.9	551.6	544.5	525.2
70°	491.8	491.8	490.1	493.6	490.1	491.8	491.8	486.6	479.6	474.3	456.7
72.5°	407.5	405.8	412.8	407.5	412.8	405.8	407.5	405.8	402.3	397.0	379.4
75°	325.0	328.5	325.0	330.2	325.0	328.5	325.0	326.7	325.0	321.5	309.2
77.5°	247.7	251.2	247.7	247.7	247.7	251.2	247.7	249.4	249.4	249.4	238.9
80°	175.7	173.9	173.9	172.1	173.9	173.9	175.7	175.7	177.4	173.9	170.4
82.5°	112.4	110.7	110.7	114.2	110.7	110.7	112.4	114.2	110.7	110.7	110.7
85°	61.5	63.2	59.7	59.7	59.7	63.2	61.5	58.0	61.5	61.5	59.7
87.5°	22.8	21.1	21.1	21.1	21.1	21.1	22.8	24.6	24.6	24.6	26.3
90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5
92.5°	33.5	32.1	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1
95°	113.5	109.4	93.4	77.2	93.4	109.4	113.5	149.0	196.4	220.1	185.8
97.5°	262.0	254.4	223.6	193.0	223.6	254.4	262.0	284.5	314.4	329.4	272.3
100°	367.9	358.8	322.2	285.7	322.2	358.8	367.9	366.3	364.1	362.9	299.6
102.5°	458.3	450.5	419.2	387.9	419.2	450.5	458.3	429.7	391.5	372.5	308.3
105°	563.9	559.7	542.9	526.0	542.9	559.7	563.9	499.8	414.2	371.4	309.2
107.5°	618.8	619.8	623.9	627.9	623.9	619.8	618.8	529.3	409.9	350.3	295.5
110°	632.8	637.2	654.7	672.3	654.7	637.2	632.8	532.8	399.4	332.7	283.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	623.9	630.6	657.5	684.4	657.5	630.6	623.9	521.4	385.0	316.7	272.6
115°	593.5	602.8	640.1	677.3	640.1	602.8	593.5	494.8	363.3	297.5	260.4
117.5°	551.4	561.8	603.1	644.5	603.1	561.8	551.4	462.3	343.7	284.3	252.8
120°	523.0	533.0	573.3	613.5	573.3	533.0	523.0	441.7	333.2	279.0	250.2
122.5°	494.7	504.7	544.3	583.9	544.3	504.7	494.7	421.5	323.8	275.0	248.8
125°	457.2	466.4	502.9	539.5	502.9	466.4	457.2	395.1	312.1	270.6	247.8
127.5°	427.2	434.9	465.7	496.5	465.7	434.9	427.2	373.8	302.6	266.9	247.1
130°	408.1	415.3	443.7	472.2	443.7	415.3	408.1	360.6	297.2	265.5	247.5
132.5°	392.0	398.4	423.9	449.3	423.9	398.4	392.0	349.4	292.6	264.3	247.8
135°	369.1	374.6	396.6	418.5	396.6	374.6	369.1	333.5	286.0	262.2	247.5
137.5°	352.2	356.7	374.7	392.7	374.7	356.7	352.2	322.1	281.9	261.8	249.0
140°	338.7	342.9	359.7	376.5	359.7	342.9	338.7	312.7	278.0	260.6	249.3
142.5°	329.2	332.8	347.3	361.7	347.3	332.8	329.2	306.4	275.9	260.6	250.2
145°	315.0	317.7	328.7	339.6	328.7	317.7	315.0	296.3	271.3	258.8	250.2
147.5°	302.9	305.2	314.3	323.4	314.3	305.2	302.9	288.3	268.7	258.8	251.9
150°	296.1	297.9	305.3	312.7	305.3	297.9	296.1	283.7	267.1	258.8	252.8
152.5°	290.6	292.0	297.6	303.1	297.6	292.0	290.6	280.0	265.9	258.8	253.4
155°	284.1	285.0	288.7	292.4	288.7	285.0	284.1	275.7	264.5	258.8	254.7
157.5°	278.5	279.1	281.8	284.3	281.8	279.1	278.5	271.9	263.2	258.8	255.9
160°	275.7	276.1	277.5	279.0	277.5	276.1	275.7	270.1	262.6	258.8	256.6
162.5°	273.1	273.4	274.8	276.2	274.8	273.4	273.1	268.3	262.0	258.8	257.2
165°	269.0	269.4	270.9	272.4	270.9	269.4	269.0	265.6	261.1	258.8	258.1
167.5°	267.3	267.4	268.1	268.7	268.1	267.4	267.3	265.1	262.1	260.6	260.0
170°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	265.1	262.1	260.6	260.6
172.5°	265.9	265.7	265.2	264.6	265.2	265.7	265.9	264.1	261.7	260.6	260.6
175°	263.9	263.9	263.9	263.9	263.9	263.9	263.9	262.8	261.3	260.6	260.9
177.5°	263.6	263.4	262.8	262.2	262.8	263.4	263.6	262.7	261.6	260.9	261.2
180°	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1833.8	1842.6	1847.9	1854.9	1872.4
5°	1763.5	1796.9	1807.5	1833.8	1865.4
7.5°	1609.0	1710.8	1738.9	1802.2	1851.4
10°	1459.6	1561.5	1610.7	1760.0	1833.8
12.5°	1384.1	1443.8	1477.2	1686.3	1809.2
15°	1336.7	1378.8	1403.4	1587.9	1781.1
17.5°	1299.8	1329.7	1347.2	1491.3	1742.5
20°	1277.0	1291.0	1306.8	1421.0	1698.5
22.5°	1261.2	1252.4	1264.7	1371.8	1638.8
25°	1250.6	1217.2	1231.3	1333.2	1568.6
27.5°	1259.4	1185.6	1190.9	1298.0	1494.8
30°	1261.2	1147.0	1148.7	1261.2	1412.2
32.5°	1248.9	1106.6	1108.3	1215.5	1319.1
35°	1219.0	1059.1	1057.4	1162.8	1192.6
37.5°	1178.6	1008.3	1008.3	1104.8	1053.9
40°	1129.4	957.3	962.6	1029.4	931.0
42.5°	1069.7	902.9	909.9	929.2	839.7
45°	1004.8	850.2	855.5	785.2	769.4
47.5°	932.8	795.7	797.5	651.7	746.6
50°	846.7	739.5	732.5	558.6	744.8
52.5°	771.1	678.0	657.0	505.9	676.3
55°	697.4	613.1	567.4	465.5	627.1
57.5°	632.4	528.7	484.8	418.1	616.6
60°	572.7	446.2	412.8	367.1	565.6
62.5°	523.5	384.7	377.7	332.0	512.9
65°	470.8	342.5	340.8	302.1	435.6
67.5°	419.8	314.4	312.7	274.0	332.0
70°	365.4	284.6	281.1	244.2	245.9
72.5°	309.2	251.2	247.7	219.6	203.8
75°	253.0	212.5	210.8	191.5	165.1
77.5°	198.5	168.6	172.1	154.6	121.2
80°	142.3	123.0	126.5	110.7	91.3
82.5°	94.9	80.8	84.3	70.3	61.5
85°	52.7	45.7	47.4	36.9	28.1
87.5°	24.6	21.1	21.1	14.1	8.8
90°	7.7	4.9	4.6	3.2	1.8
92.5°	47.8	34.0	31.0	19.0	7.0
95°	117.4	66.1	60.7	38.7	16.9
97.5°	158.2	72.6	67.8	48.6	29.2
100°	173.0	78.1	73.7	56.2	38.7
102.5°	179.9	83.5	79.5	63.1	46.8
105°	185.0	91.7	88.3	74.4	60.5
107.5°	185.8	103.6	100.4	87.5	74.6
110°	184.4	110.3	107.4	95.7	84.1



TEST NUMBER: P933965

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	184.5	118.4	115.6	104.5	93.5
115°	186.2	130.5	128.0	117.7	107.5
117.5°	189.7	142.4	140.0	130.7	121.4
120°	192.5	149.2	147.0	138.2	129.5
122.5°	196.6	157.3	155.1	146.2	137.4
125°	202.0	167.7	165.6	157.7	149.6
127.5°	207.5	177.7	175.7	167.5	159.4
130°	211.4	184.4	182.2	173.5	164.7
132.5°	214.7	189.8	187.6	178.9	170.1
135°	218.2	196.2	194.2	186.2	178.2
137.5°	223.4	204.3	202.3	194.4	186.5
140°	226.7	209.7	207.9	200.6	193.3
142.5°	229.4	213.8	212.1	205.3	198.7
145°	232.9	219.9	218.4	212.6	206.8
147.5°	238.0	227.7	226.3	220.5	214.8
150°	240.7	231.7	230.4	225.3	220.1
152.5°	242.5	234.3	233.4	229.4	225.5
155°	246.4	240.1	239.4	236.5	233.6
157.5°	250.2	245.9	245.2	242.4	239.6
160°	252.0	248.6	248.0	245.8	243.6
162.5°	253.8	251.4	250.9	249.3	247.7
165°	256.6	255.5	255.1	253.7	252.2
167.5°	258.7	257.8	257.6	256.9	256.2
170°	260.5	260.4	260.2	259.5	258.8
172.5°	260.6	260.6	260.6	260.4	260.2
175°	261.6	262.2	262.2	262.2	262.2
177.5°	261.7	262.2	262.2	262.2	262.2
180°	262.2	262.2	262.2	262.2	262.2



TEST NUMBER: P933965

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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	14.25	15.38	14.97	16.12	17.01	17.09	18.22	17.81	18.96	19.84
	3H	14.75	15.76	15.49	16.51	17.43	18.46	19.47	19.19	20.22	21.14
	4H	14.95	15.91	15.71	16.67	17.60	18.92	19.87	19.67	20.63	21.56
	6H	15.09	15.97	15.85	16.74	17.68	19.22	20.10	19.98	20.87	21.81
	8H	15.10	15.93	15.87	16.72	17.67	19.30	20.14	20.08	20.93	21.87
	12H	15.08	15.88	15.86	16.66	17.63	19.35	20.15	20.13	20.93	21.90
4H	2H	15.32	16.27	16.08	17.04	17.96	17.53	18.49	18.29	19.25	20.17
	3H	16.37	17.17	17.14	17.96	18.91	19.07	19.86	19.83	20.66	21.60
	4H	16.66	17.38	17.44	18.18	19.15	19.61	20.33	20.39	21.13	22.10
	6H	16.80	17.43	17.60	18.25	19.23	19.99	20.61	20.79	21.44	22.41
	8H	16.81	17.40	17.62	18.21	19.20	20.10	20.69	20.91	21.50	22.50
	12H	16.79	17.32	17.62	18.16	19.15	20.17	20.70	21.00	21.54	22.53
8H	4H	17.14	17.72	17.94	18.54	19.53	19.75	20.34	20.56	21.15	22.14
	6H	17.41	17.89	18.24	18.75	19.74	20.20	20.69	21.04	21.54	22.54
	8H	17.45	17.88	18.30	18.74	19.75	20.36	20.79	21.20	21.64	22.65
	12H	17.45	17.83	18.30	18.68	19.74	20.47	20.85	21.32	21.69	22.76
12H	4H	17.15	17.68	17.98	18.52	19.52	19.73	20.25	20.55	21.09	22.09
	6H	17.47	17.90	18.32	18.76	19.77	20.20	20.63	21.05	21.49	22.50
	8H	17.55	17.93	18.40	18.78	19.84	20.38	20.75	21.22	21.60	22.67