

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: P934365

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934365
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

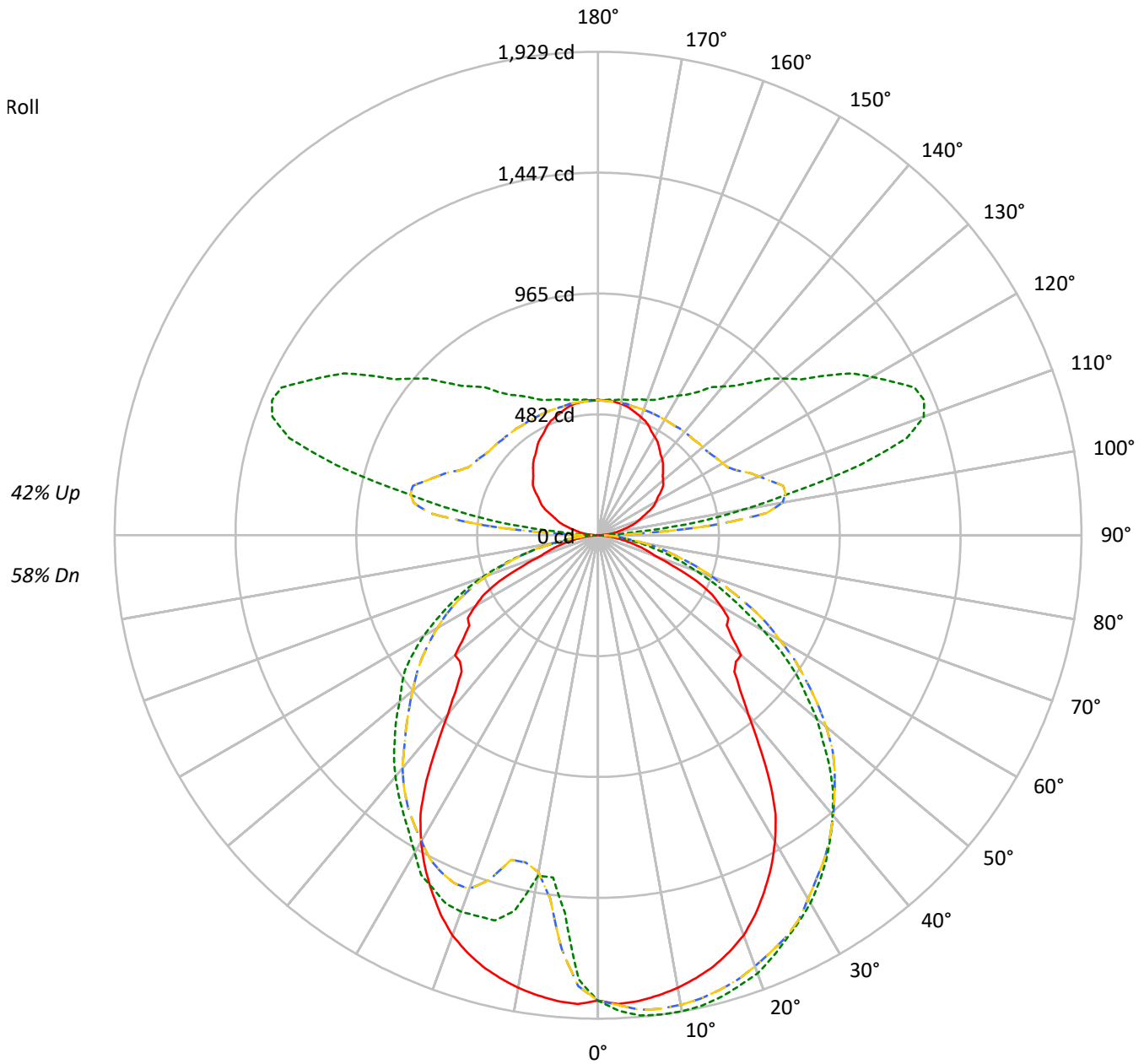
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8313.2 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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

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	2.0
10°-20°	475.8	5.7
20°-30°	735.6	8.8
30°-40°	878.1	10.6
40°-50°	883.3	10.6
50°-60°	768.6	9.2
60°-70°	544.9	6.6
70°-80°	288.3	3.5
80°-90°	73.9	0.9
90°-100°	263.0	3.2
100°-110°	691.3	8.3
110°-120°	716.8	8.6
120°-130°	575.0	6.9
130°-140°	451.2	5.4
140°-150°	346.3	4.2
150°-160°	249.4	3.0
160°-170°	152.6	1.8
170°-180°	51.6	0.6
0°-30°	1379.0	16.6
0°-40°	2257.1	27.2
0°-60°	3908.9	47.0
0°-90°	4816.0	57.9
90°-120°	1671.1	20.1
90°-150°	3043.6	36.6
90°-180°	3497.0	42.1
0°-180°	8313.2	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°	4	14	4	14	4	4
95°	35	159	35	159	35	39
105°	124	1082	124	1082	124	132
115°	221	1394	221	1394	221	218
125°	308	1110	308	1110	308	273
135°	367	861	367	861	367	284
145°	425	699	425	699	425	267
155°	481	602	481	602	481	221
165°	519	560	519	560	519	146
175°	540	543	540	543	540	51
180°	540	540	540	540	540	



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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°	3.6	6.5	9.4	10.1	15.9	23.6	27.5	24.4	18.4	13.8	13.8
92.5°	14.5	39.1	63.8	69.9	98.3	136.0	154.9	135.8	97.5	68.8	66.0
95°	34.8	79.8	124.9	136.1	241.7	382.5	452.9	404.2	306.7	233.5	225.3
97.5°	60.1	99.8	139.6	149.5	325.6	560.4	677.8	647.0	585.3	539.1	523.3
100°	79.7	115.7	151.7	160.7	356.2	616.7	746.9	749.2	753.7	757.0	738.2
102.5°	96.3	130.0	163.5	172.0	370.1	634.4	766.5	805.8	884.3	943.1	927.0
105°	124.5	153.0	181.5	188.7	380.6	636.4	764.3	852.3	1028.4	1160.4	1151.7
107.5°	153.5	180.1	206.6	213.3	382.4	608.0	720.8	843.6	1089.2	1273.4	1275.5
110°	173.0	197.0	221.1	227.0	379.6	582.9	684.6	821.9	1096.4	1302.3	1311.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	192.3	215.1	237.9	243.6	379.7	561.1	651.7	792.1	1073.1	1283.8	1297.7
115°	221.2	242.3	263.4	268.7	383.2	535.9	612.3	747.6	1018.2	1221.2	1240.3
117.5°	249.8	268.9	288.1	292.9	390.3	520.1	585.0	707.2	951.5	1134.7	1155.9
120°	266.5	284.5	302.6	307.1	396.1	514.9	574.2	685.8	909.0	1076.4	1097.0
122.5°	282.7	300.9	319.1	323.7	404.4	512.0	565.9	666.4	867.4	1018.1	1038.5
125°	307.8	324.3	340.9	345.0	415.6	509.8	556.8	642.2	813.0	941.0	959.8
127.5°	328.0	344.7	361.4	365.6	426.9	508.4	549.2	622.5	769.1	879.1	894.9
130°	338.8	356.9	374.9	379.4	435.0	509.2	546.3	611.6	742.1	839.9	854.6
132.5°	350.1	368.1	386.2	390.7	441.7	509.8	543.8	602.3	719.1	806.6	819.7
135°	366.8	383.2	399.5	403.7	448.9	509.2	539.5	588.4	686.2	759.6	770.9
137.5°	383.8	400.1	416.3	420.4	459.8	512.4	538.7	580.1	662.9	724.9	734.1
140°	397.9	412.9	427.8	431.6	466.5	512.9	536.2	571.9	643.4	696.9	705.5
142.5°	408.8	422.6	436.4	439.9	472.0	514.8	536.2	567.6	630.4	677.4	684.9
145°	425.4	437.5	449.6	452.6	479.3	514.9	532.6	558.2	609.6	648.1	653.7
147.5°	442.0	453.8	465.6	468.5	489.8	518.4	532.6	552.8	593.1	623.4	628.1
150°	452.9	463.6	474.2	476.8	495.4	520.2	532.6	549.6	583.8	609.4	613.1
152.5°	464.2	472.3	480.3	482.3	499.1	521.4	532.6	547.2	576.3	598.1	601.0
155°	480.8	486.8	492.7	494.2	507.0	524.1	532.6	544.2	567.3	584.7	586.6
157.5°	493.1	498.9	504.7	506.2	514.9	526.7	532.6	541.6	559.6	573.1	574.4
160°	501.4	506.0	510.5	511.6	518.6	527.9	532.6	540.3	555.7	567.3	568.1
162.5°	509.8	513.2	516.5	517.4	522.5	529.3	532.6	539.1	552.2	561.9	562.6
165°	518.8	521.9	524.9	525.7	527.9	531.0	532.6	537.3	546.6	553.6	554.4
167.5°	527.2	528.6	530.1	530.4	532.3	534.9	536.2	539.3	545.4	550.0	550.3
170°	532.6	534.0	535.5	535.9	535.9	536.1	536.2	539.3	545.4	550.0	550.0
172.5°	535.5	535.9	536.1	536.2	536.2	536.2	536.2	538.7	543.5	547.1	546.8
175°	539.5	539.5	539.5	539.5	538.4	536.9	536.2	537.7	540.8	543.1	543.1
177.5°	539.5	539.5	539.5	539.5	538.6	537.4	536.9	538.1	540.5	542.4	542.0
180°	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5



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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°	13.8	13.8	13.8	13.8	13.8	18.4	24.4	27.5	23.6	15.9	10.1
92.5°	55.1	44.2	55.1	66.0	68.8	97.5	135.8	154.9	136.0	98.3	69.9
95°	192.1	159.0	192.1	225.3	233.5	306.7	404.2	452.9	382.5	241.7	136.1
97.5°	460.2	397.2	460.2	523.3	539.1	585.3	647.0	677.8	560.4	325.6	149.5
100°	663.1	587.9	663.1	738.2	757.0	753.7	749.2	746.9	616.7	356.2	160.7
102.5°	862.7	798.3	862.7	927.0	943.1	884.3	805.8	766.5	634.4	370.1	172.0
105°	1117.1	1082.5	1117.1	1151.7	1160.4	1028.4	852.3	764.3	636.4	380.6	188.7
107.5°	1283.8	1292.2	1283.8	1275.5	1273.4	1089.2	843.6	720.8	608.0	382.4	213.3
110°	1347.3	1383.4	1347.3	1311.3	1302.3	1096.4	821.9	684.6	582.9	379.6	227.0



TEST NUMBER: P934365

CATALOG NUMBER: SQ4-FA-050U-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°	1353.0	1408.4	1353.0	1297.7	1283.8	1073.1	792.1	651.7	561.1	379.7	243.6
115°	1317.1	1393.9	1317.1	1240.3	1221.2	1018.2	747.6	612.3	535.9	383.2	268.7
117.5°	1241.1	1326.2	1241.1	1155.9	1134.7	951.5	707.2	585.0	520.1	390.3	292.9
120°	1179.7	1262.5	1179.7	1097.0	1076.4	909.0	685.8	574.2	514.9	396.1	307.1
122.5°	1120.1	1201.7	1120.1	1038.5	1018.1	867.4	666.4	565.9	512.0	404.4	323.7
125°	1034.9	1110.1	1034.9	959.8	941.0	813.0	642.2	556.8	509.8	415.6	345.0
127.5°	958.3	1021.7	958.3	894.9	879.1	769.1	622.5	549.2	508.4	426.9	365.6
130°	913.2	971.8	913.2	854.6	839.9	742.1	611.6	546.3	509.2	435.0	379.4
132.5°	872.2	924.7	872.2	819.7	806.6	719.1	602.3	543.8	509.8	441.7	390.7
135°	816.1	861.3	816.1	770.9	759.6	686.2	588.4	539.5	509.2	448.9	403.7
137.5°	771.1	808.1	771.1	734.1	724.9	662.9	580.1	538.7	512.4	459.8	420.4
140°	740.1	774.7	740.1	705.5	696.9	643.4	571.9	536.2	512.9	466.5	431.6
142.5°	714.6	744.4	714.6	684.9	677.4	630.4	567.6	536.2	514.8	472.0	439.9
145°	676.3	698.8	676.3	653.7	648.1	609.6	558.2	532.6	514.9	479.3	452.6
147.5°	646.8	665.5	646.8	628.1	623.4	593.1	552.8	532.6	518.4	489.8	468.5
150°	628.2	643.4	628.2	613.1	609.4	583.8	549.6	532.6	520.2	495.4	476.8
152.5°	612.4	623.9	612.4	601.0	598.1	576.3	547.2	532.6	521.4	499.1	482.3
155°	594.2	601.7	594.2	586.6	584.7	567.3	544.2	532.6	524.1	507.0	494.2
157.5°	579.8	585.0	579.8	574.4	573.1	559.6	541.6	532.6	526.7	514.9	506.2
160°	571.2	574.2	571.2	568.1	567.3	555.7	540.3	532.6	527.9	518.6	511.6
162.5°	565.5	568.4	565.5	562.6	561.9	552.2	539.1	532.6	529.3	522.5	517.4
165°	557.4	560.4	557.4	554.4	553.6	546.6	537.3	532.6	531.0	527.9	525.7
167.5°	551.6	552.9	551.6	550.3	550.0	545.4	539.3	536.2	534.9	532.3	530.4
170°	550.0	550.0	550.0	550.0	550.0	545.4	539.3	536.2	536.1	535.9	535.9
172.5°	545.7	544.5	545.7	546.8	547.1	543.5	538.7	536.2	536.2	536.2	536.2
175°	543.1	543.1	543.1	543.1	543.1	540.8	537.7	536.2	536.9	538.4	539.5
177.5°	540.8	539.5	540.8	542.0	542.4	540.5	538.1	536.9	537.4	538.6	539.5
180°	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5



TEST NUMBER: P934365

CATALOG NUMBER: SQ4-FA-050U-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°	9.4	6.5	3.6	6.5	9.4	10.1	15.9	23.6	27.5	24.4	18.4
92.5°	63.8	39.1	14.5	39.1	63.8	69.9	98.3	136.0	154.9	135.8	97.5
95°	124.9	79.8	34.8	79.8	124.9	136.1	241.7	382.5	452.9	404.2	306.7
97.5°	139.6	99.8	60.1	99.8	139.6	149.5	325.6	560.4	677.8	647.0	585.3
100°	151.7	115.7	79.7	115.7	151.7	160.7	356.2	616.7	746.9	749.2	753.7
102.5°	163.5	130.0	96.3	130.0	163.5	172.0	370.1	634.4	766.5	805.8	884.3
105°	181.5	153.0	124.5	153.0	181.5	188.7	380.6	636.4	764.3	852.3	1028.4
107.5°	206.6	180.1	153.5	180.1	206.6	213.3	382.4	608.0	720.8	843.6	1089.2
110°	221.1	197.0	173.0	197.0	221.1	227.0	379.6	582.9	684.6	821.9	1096.4



TEST NUMBER: P934365

CATALOG NUMBER: SQ4-FA-050U-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°	237.9	215.1	192.3	215.1	237.9	243.6	379.7	561.1	651.7	792.1	1073.1
115°	263.4	242.3	221.2	242.3	263.4	268.7	383.2	535.9	612.3	747.6	1018.2
117.5°	288.1	268.9	249.8	268.9	288.1	292.9	390.3	520.1	585.0	707.2	951.5
120°	302.6	284.5	266.5	284.5	302.6	307.1	396.1	514.9	574.2	685.8	909.0
122.5°	319.1	300.9	282.7	300.9	319.1	323.7	404.4	512.0	565.9	666.4	867.4
125°	340.9	324.3	307.8	324.3	340.9	345.0	415.6	509.8	556.8	642.2	813.0
127.5°	361.4	344.7	328.0	344.7	361.4	365.6	426.9	508.4	549.2	622.5	769.1
130°	374.9	356.9	338.8	356.9	374.9	379.4	435.0	509.2	546.3	611.6	742.1
132.5°	386.2	368.1	350.1	368.1	386.2	390.7	441.7	509.8	543.8	602.3	719.1
135°	399.5	383.2	366.8	383.2	399.5	403.7	448.9	509.2	539.5	588.4	686.2
137.5°	416.3	400.1	383.8	400.1	416.3	420.4	459.8	512.4	538.7	580.1	662.9
140°	427.8	412.9	397.9	412.9	427.8	431.6	466.5	512.9	536.2	571.9	643.4
142.5°	436.4	422.6	408.8	422.6	436.4	439.9	472.0	514.8	536.2	567.6	630.4
145°	449.6	437.5	425.4	437.5	449.6	452.6	479.3	514.9	532.6	558.2	609.6
147.5°	465.6	453.8	442.0	453.8	465.6	468.5	489.8	518.4	532.6	552.8	593.1
150°	474.2	463.6	452.9	463.6	474.2	476.8	495.4	520.2	532.6	549.6	583.8
152.5°	480.3	472.3	464.2	472.3	480.3	482.3	499.1	521.4	532.6	547.2	576.3
155°	492.7	486.8	480.8	486.8	492.7	494.2	507.0	524.1	532.6	544.2	567.3
157.5°	504.7	498.9	493.1	498.9	504.7	506.2	514.9	526.7	532.6	541.6	559.6
160°	510.5	506.0	501.4	506.0	510.5	511.6	518.6	527.9	532.6	540.3	555.7
162.5°	516.5	513.2	509.8	513.2	516.5	517.4	522.5	529.3	532.6	539.1	552.2
165°	524.9	521.9	518.8	521.9	524.9	525.7	527.9	531.0	532.6	537.3	546.6
167.5°	530.1	528.6	527.2	528.6	530.1	530.4	532.3	534.9	536.2	539.3	545.4
170°	535.5	534.0	532.6	534.0	535.5	535.9	535.9	536.1	536.2	539.3	545.4
172.5°	536.1	535.9	535.5	535.9	536.1	536.2	536.2	536.2	536.2	538.7	543.5
175°	539.5	539.5	539.5	539.5	539.5	539.5	538.4	536.9	536.2	537.7	540.8
177.5°	539.5	539.5	539.5	539.5	539.5	539.5	538.6	537.4	536.9	538.1	540.5
180°	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5



TEST NUMBER: P934365

CATALOG NUMBER: SQ4-FA-050U-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°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	18.4	24.4	27.5	23.6
92.5°	68.8	66.0	55.1	44.2	55.1	66.0	68.8	97.5	135.8	154.9	136.0
95°	233.5	225.3	192.1	159.0	192.1	225.3	233.5	306.7	404.2	452.9	382.5
97.5°	539.1	523.3	460.2	397.2	460.2	523.3	539.1	585.3	647.0	677.8	560.4
100°	757.0	738.2	663.1	587.9	663.1	738.2	757.0	753.7	749.2	746.9	616.7
102.5°	943.1	927.0	862.7	798.3	862.7	927.0	943.1	884.3	805.8	766.5	634.4
105°	1160.4	1151.7	1117.1	1082.5	1117.1	1151.7	1160.4	1028.4	852.3	764.3	636.4
107.5°	1273.4	1275.5	1283.8	1292.2	1283.8	1275.5	1273.4	1089.2	843.6	720.8	608.0
110°	1302.3	1311.3	1347.3	1383.4	1347.3	1311.3	1302.3	1096.4	821.9	684.6	582.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1283.8	1297.7	1353.0	1408.4	1353.0	1297.7	1283.8	1073.1	792.1	651.7	561.1
115°	1221.2	1240.3	1317.1	1393.9	1317.1	1240.3	1221.2	1018.2	747.6	612.3	535.9
117.5°	1134.7	1155.9	1241.1	1326.2	1241.1	1155.9	1134.7	951.5	707.2	585.0	520.1
120°	1076.4	1097.0	1179.7	1262.5	1179.7	1097.0	1076.4	909.0	685.8	574.2	514.9
122.5°	1018.1	1038.5	1120.1	1201.7	1120.1	1038.5	1018.1	867.4	666.4	565.9	512.0
125°	941.0	959.8	1034.9	1110.1	1034.9	959.8	941.0	813.0	642.2	556.8	509.8
127.5°	879.1	894.9	958.3	1021.7	958.3	894.9	879.1	769.1	622.5	549.2	508.4
130°	839.9	854.6	913.2	971.8	913.2	854.6	839.9	742.1	611.6	546.3	509.2
132.5°	806.6	819.7	872.2	924.7	872.2	819.7	806.6	719.1	602.3	543.8	509.8
135°	759.6	770.9	816.1	861.3	816.1	770.9	759.6	686.2	588.4	539.5	509.2
137.5°	724.9	734.1	771.1	808.1	771.1	734.1	724.9	662.9	580.1	538.7	512.4
140°	696.9	705.5	740.1	774.7	740.1	705.5	696.9	643.4	571.9	536.2	512.9
142.5°	677.4	684.9	714.6	744.4	714.6	684.9	677.4	630.4	567.6	536.2	514.8
145°	648.1	653.7	676.3	698.8	676.3	653.7	648.1	609.6	558.2	532.6	514.9
147.5°	623.4	628.1	646.8	665.5	646.8	628.1	623.4	593.1	552.8	532.6	518.4
150°	609.4	613.1	628.2	643.4	628.2	613.1	609.4	583.8	549.6	532.6	520.2
152.5°	598.1	601.0	612.4	623.9	612.4	601.0	598.1	576.3	547.2	532.6	521.4
155°	584.7	586.6	594.2	601.7	594.2	586.6	584.7	567.3	544.2	532.6	524.1
157.5°	573.1	574.4	579.8	585.0	579.8	574.4	573.1	559.6	541.6	532.6	526.7
160°	567.3	568.1	571.2	574.2	571.2	568.1	567.3	555.7	540.3	532.6	527.9
162.5°	561.9	562.6	565.5	568.4	565.5	562.6	561.9	552.2	539.1	532.6	529.3
165°	553.6	554.4	557.4	560.4	557.4	554.4	553.6	546.6	537.3	532.6	531.0
167.5°	550.0	550.3	551.6	552.9	551.6	550.3	550.0	545.4	539.3	536.2	534.9
170°	550.0	550.0	550.0	550.0	550.0	550.0	550.0	545.4	539.3	536.2	536.1
172.5°	547.1	546.8	545.7	544.5	545.7	546.8	547.1	543.5	538.7	536.2	536.2
175°	543.1	543.1	543.1	543.1	543.1	543.1	543.1	540.8	537.7	536.2	536.9
177.5°	542.4	542.0	540.8	539.5	540.8	542.0	542.4	540.5	538.1	536.9	537.4
180°	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5



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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°	15.9	10.1	9.4	6.5	3.6
92.5°	98.3	69.9	63.8	39.1	14.5
95°	241.7	136.1	124.9	79.8	34.8
97.5°	325.6	149.5	139.6	99.8	60.1
100°	356.2	160.7	151.7	115.7	79.7
102.5°	370.1	172.0	163.5	130.0	96.3
105°	380.6	188.7	181.5	153.0	124.5
107.5°	382.4	213.3	206.6	180.1	153.5
110°	379.6	227.0	221.1	197.0	173.0



TEST NUMBER: P934365

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	379.7	243.6	237.9	215.1	192.3
115°	383.2	268.7	263.4	242.3	221.2
117.5°	390.3	292.9	288.1	268.9	249.8
120°	396.1	307.1	302.6	284.5	266.5
122.5°	404.4	323.7	319.1	300.9	282.7
125°	415.6	345.0	340.9	324.3	307.8
127.5°	426.9	365.6	361.4	344.7	328.0
130°	435.0	379.4	374.9	356.9	338.8
132.5°	441.7	390.7	386.2	368.1	350.1
135°	448.9	403.7	399.5	383.2	366.8
137.5°	459.8	420.4	416.3	400.1	383.8
140°	466.5	431.6	427.8	412.9	397.9
142.5°	472.0	439.9	436.4	422.6	408.8
145°	479.3	452.6	449.6	437.5	425.4
147.5°	489.8	468.5	465.6	453.8	442.0
150°	495.4	476.8	474.2	463.6	452.9
152.5°	499.1	482.3	480.3	472.3	464.2
155°	507.0	494.2	492.7	486.8	480.8
157.5°	514.9	506.2	504.7	498.9	493.1
160°	518.6	511.6	510.5	506.0	501.4
162.5°	522.5	517.4	516.5	513.2	509.8
165°	527.9	525.7	524.9	521.9	518.8
167.5°	532.3	530.4	530.1	528.6	527.2
170°	535.9	535.9	535.5	534.0	532.6
172.5°	536.2	536.2	536.1	535.9	535.5
175°	538.4	539.5	539.5	539.5	539.5
177.5°	538.6	539.5	539.5	539.5	539.5
180°	539.5	539.5	539.5	539.5	539.5



TEST NUMBER: P934365
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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	12.99	13.93	13.88	14.84	15.99	15.83	16.77	16.71	17.67	18.83
	3H	13.47	14.31	14.37	15.23	16.41	17.18	18.02	18.08	18.94	20.12
	4H	13.67	14.46	14.58	15.38	16.57	17.63	18.43	18.55	19.35	20.54
	6H	13.79	14.52	14.72	15.45	16.65	17.92	18.65	18.85	19.58	20.78
	8H	13.79	14.49	14.73	15.44	16.64	18.00	18.70	18.93	19.64	20.84
	12H	13.77	14.43	14.71	15.37	16.60	18.04	18.71	18.98	19.65	20.87
4H	2H	14.03	14.83	14.95	15.75	16.94	16.25	17.04	17.17	17.96	19.15
	3H	15.07	15.73	16.00	16.68	17.89	17.76	18.42	18.69	19.38	20.58
	4H	15.35	15.95	16.29	16.90	18.13	18.29	18.90	19.24	19.85	21.07
	6H	15.48	16.00	16.43	16.97	18.20	18.67	19.19	19.62	20.16	21.39
	8H	15.49	15.97	16.44	16.94	18.18	18.78	19.26	19.73	20.23	21.47
	12H	15.46	15.89	16.43	16.88	18.12	18.84	19.28	19.81	20.26	21.51
8H	4H	15.81	16.30	16.77	17.26	18.50	18.43	18.91	19.38	19.88	21.12
	6H	16.07	16.48	17.06	17.48	18.72	18.87	19.27	19.85	20.28	21.52
	8H	16.12	16.47	17.11	17.47	18.73	19.02	19.38	20.01	20.37	21.63
	12H	16.10	16.42	17.10	17.41	18.71	19.12	19.44	20.12	20.43	21.73
12H	4H	15.82	16.26	16.79	17.24	18.49	18.39	18.83	19.37	19.81	21.06
	6H	16.14	16.49	17.13	17.49	18.75	18.86	19.22	19.86	20.22	21.47
	8H	16.21	16.52	17.20	17.51	18.81	19.03	19.34	20.02	20.33	21.64