

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: P934408

Luminaire Tested: SQ4-FA-050U-075D-B50-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

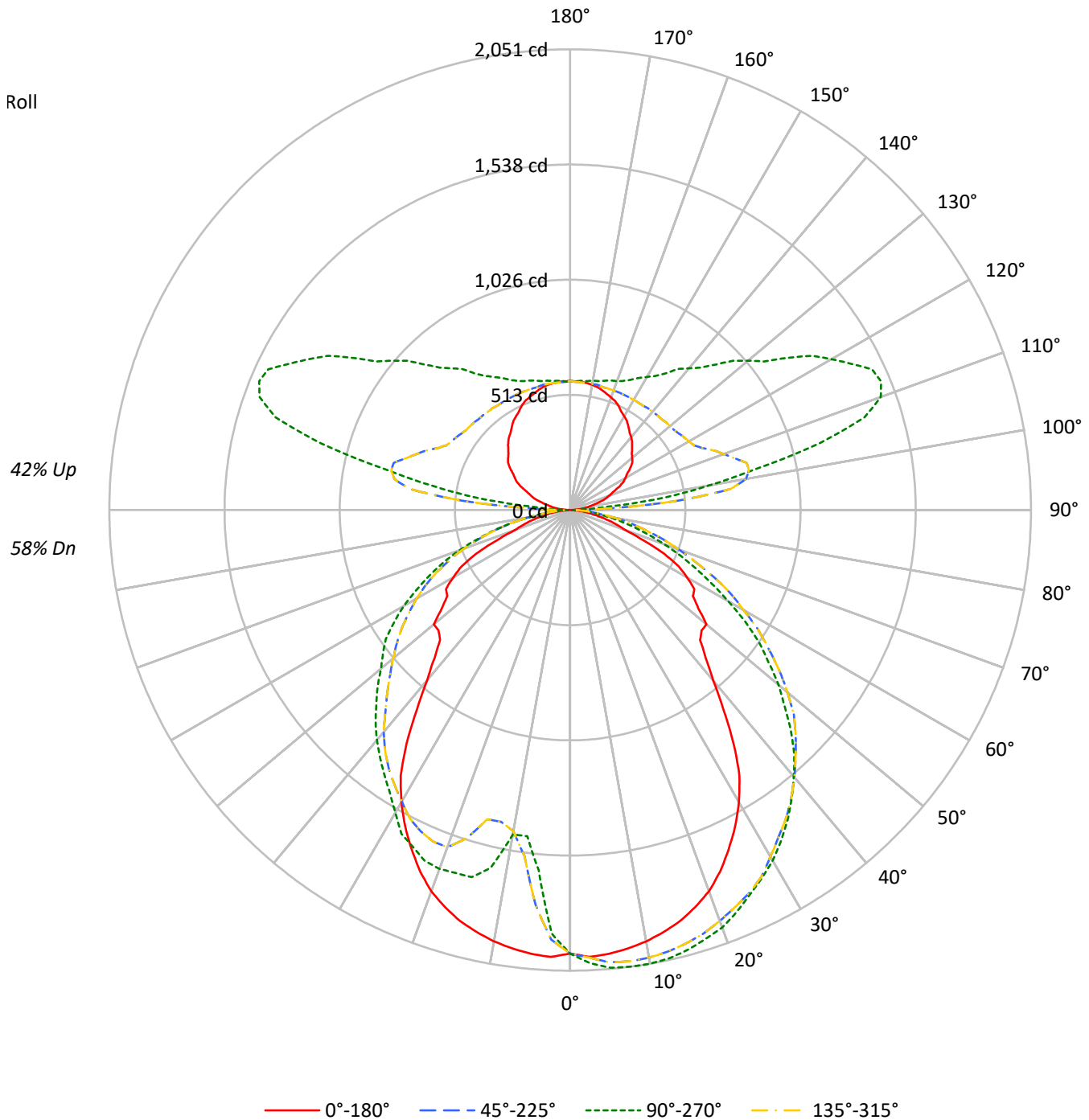
Test Method: LM-79-2019  
Report Number: P934408  
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-B50-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8840.4 lumens  
Efficiency: N/A  
Efficacy: 121.4 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: General Diffuse  
  
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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

RF	20				20				20			20			20			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°	9160	9160	9160	9160
5°	9229	9247	9229	7271
10°	9167	9109	9167	6512
15°	9068	8911	9068	7441
20°	8878	8678	8878	7457
25°	8489	8336	8489	7299
30°	7988	8053	7988	6952
35°	7121	7695	7121	6570
40°	5934	7274	5934	6282
45°	5302	6780	5302	5951
50°	5633	6192	5633	5619
55°	5300	5558	5300	5426
60°	5463	4721	5463	4970
65°	4953	3902	4953	4362
70°	3430	3110	3430	3656
75°	3008	2299	3008	2753
80°	2423	1520	2423	1655
85°	1393	805	1393	684

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8126 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.2	2.0
10°-20°	506.0	5.7
20°-30°	782.2	8.8
30°-40°	933.8	10.6
40°-50°	939.3	10.6
50°-60°	817.3	9.2
60°-70°	579.5	6.6
70°-80°	306.6	3.5
80°-90°	78.5	0.9
90°-100°	279.6	3.2
100°-110°	735.2	8.3
110°-120°	762.3	8.6
120°-130°	611.4	6.9
130°-140°	479.8	5.4
140°-150°	368.3	4.2
150°-160°	265.2	3.0
160°-170°	162.3	1.8
170°-180°	54.8	0.6
0°-30°	1466.5	16.6
0°-40°	2400.3	27.2
0°-60°	4156.8	47.0
0°-90°	5121.5	57.9
90°-120°	1777.1	20.1
90°-150°	3236.6	36.6
90°-180°	3719.0	42.1
0°-180°	8840.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1974	1974	1974	1974	1974	
5°	1984	2045	1984	1608	1984	188
15°	1894	2027	1894	1692	1894	533
25°	1668	1890	1668	1655	1668	766
35°	1268	1687	1268	1440	1268	785
45°	818	1390	818	1220	818	655
55°	667	1026	667	1001	667	613
65°	463	618	463	691	463	443
75°	176	293	176	351	176	185
85°	30	75	30	64	30	40
90°	4	15	4	15	4	4
95°	37	169	37	169	37	41
105°	132	1151	132	1151	132	140
115°	235	1482	235	1482	235	232
125°	327	1180	327	1180	327	291
135°	390	916	390	916	390	302
145°	452	743	452	743	452	283
155°	511	640	511	640	511	235
165°	552	596	552	596	552	156
175°	574	578	574	578	574	54
180°	574	574	574	574	574	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1991.2	1991.2	2002.4	2006.1	2006.1	2000.5	1994.9	2000.5	2017.3	2023.0	2021.1
5°	1983.7	1998.7	2019.2	2023.0	2026.7	2024.8	2021.1	2024.8	2043.5	2047.2	2049.1
7.5°	1968.8	1996.8	2023.0	2028.6	2034.2	2028.6	2026.7	2030.4	2049.1	2052.8	2052.8
10°	1950.1	1989.3	2019.2	2023.0	2028.6	2023.0	2023.0	2030.4	2049.1	2052.8	2054.7
12.5°	1923.9	1978.1	2006.1	2009.9	2017.3	2015.5	2013.6	2021.1	2039.8	2043.5	2043.5
15°	1894.1	1957.6	1983.7	1987.5	2000.5	1996.8	1996.8	2004.3	2024.8	2030.4	2028.6
17.5°	1853.0	1931.4	1961.3	1966.9	1976.3	1974.4	1976.3	1983.7	2002.4	2006.1	2008.0
20°	1806.3	1895.9	1931.4	1937.0	1946.4	1946.4	1946.4	1955.7	1974.4	1981.9	1981.9
22.5°	1742.8	1858.6	1895.9	1899.7	1910.9	1910.9	1914.6	1927.7	1944.5	1946.4	1946.4
25°	1668.0	1817.5	1849.2	1860.4	1871.6	1877.2	1882.9	1890.3	1895.9	1894.1	1895.9
27.5°	1589.6	1765.2	1806.3	1813.7	1828.7	1834.3	1841.8	1843.6	1845.5	1851.1	1847.4
30°	1501.8	1692.3	1754.0	1761.4	1785.7	1789.5	1782.0	1785.7	1795.1	1798.8	1802.5
32.5°	1402.8	1584.0	1699.8	1716.6	1739.0	1727.8	1725.9	1731.5	1746.5	1746.5	1750.2
35°	1268.3	1499.9	1649.4	1664.3	1681.1	1668.0	1675.5	1677.4	1686.7	1692.3	1690.4
37.5°	1120.7	1427.1	1597.0	1608.3	1621.3	1604.5	1615.7	1621.3	1628.8	1625.1	1625.1
40°	990.0	1313.1	1535.4	1542.9	1554.1	1541.0	1552.2	1556.0	1559.7	1556.0	1554.1
42.5°	892.9	1188.0	1470.0	1479.4	1471.9	1481.2	1485.0	1492.4	1486.8	1479.4	1479.4
45°	818.2	1154.3	1399.0	1410.2	1399.0	1414.0	1419.6	1419.6	1402.8	1399.0	1397.2
47.5°	793.9	1087.2	1328.1	1328.1	1322.5	1341.1	1350.5	1337.4	1320.6	1315.0	1315.0
50°	792.0	1012.5	1230.9	1223.4	1249.6	1272.0	1262.7	1249.6	1236.5	1216.0	1216.0
52.5°	719.2	920.9	1105.9	1133.8	1174.9	1188.0	1173.0	1159.9	1137.5	1128.2	1120.7
55°	666.9	825.7	991.9	1047.9	1090.9	1107.7	1079.7	1066.6	1033.0	1027.4	1023.7
57.5°	655.7	687.4	887.3	958.3	1010.6	1008.7	991.9	967.6	939.6	934.0	932.1
60°	601.5	496.9	775.2	859.3	913.5	907.8	892.9	870.5	844.3	840.6	836.9
62.5°	545.5	360.5	648.2	743.5	820.1	818.2	805.1	771.5	752.8	743.5	736.0
65°	463.3	302.6	461.4	618.3	728.5	732.3	704.2	680.0	659.4	648.2	646.3
67.5°	353.1	246.6	312.0	515.6	640.7	637.0	601.5	590.3	564.1	558.5	547.3
70°	261.5	164.4	216.7	418.4	554.8	545.5	517.4	504.4	480.1	467.0	459.5
72.5°	216.7	132.6	158.8	325.0	467.0	455.8	431.5	416.6	396.0	384.8	377.3
75°	175.6	140.1	121.4	241.0	379.2	371.7	349.3	334.4	317.6	302.6	304.5
77.5°	128.9	130.8	97.1	177.5	300.7	289.5	276.5	257.8	250.3	235.4	235.4
80°	97.1	102.7	72.9	121.4	216.7	216.7	205.5	192.4	179.3	171.9	171.9
82.5°	65.4	65.4	54.2	76.6	147.6	142.0	134.5	130.8	123.3	119.6	119.6
85°	29.9	37.4	33.6	46.7	80.3	84.1	84.1	80.3	78.5	74.7	76.6
87.5°	9.3	16.8	20.5	26.2	41.1	43.0	44.8	44.8	44.8	46.7	46.7
90°	3.8	6.9	10.0	10.7	16.9	25.1	29.2	26.0	19.5	14.7	14.7
92.5°	15.4	41.6	67.8	74.3	104.5	144.7	164.8	144.4	103.7	73.1	70.2
95°	37.0	84.9	132.8	144.8	257.0	406.8	481.7	429.8	326.2	248.4	239.6
97.5°	63.9	106.1	148.4	159.0	346.2	595.9	720.8	688.0	622.4	573.3	556.5
100°	84.7	123.0	161.3	170.9	378.7	655.8	794.3	796.7	801.5	805.0	785.0
102.5°	102.5	138.2	173.9	182.9	393.6	674.6	815.1	856.9	940.4	1002.9	985.8
105°	132.4	162.7	193.1	200.6	404.7	676.8	812.8	906.4	1093.6	1234.0	1224.8
107.5°	163.3	191.5	219.7	226.8	406.7	646.6	766.5	897.1	1158.3	1354.1	1356.4
110°	184.0	209.5	235.1	241.4	403.7	619.9	728.1	874.0	1165.9	1384.8	1394.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	204.5	228.7	253.0	259.1	403.8	596.6	693.0	842.4	1141.2	1365.2	1380.0
115°	235.3	257.7	280.1	285.7	407.5	569.9	651.1	795.0	1082.8	1298.6	1319.0
117.5°	265.6	286.0	306.4	311.5	415.1	553.1	622.1	752.1	1011.8	1206.6	1229.2
120°	283.4	302.5	321.8	326.5	421.2	547.5	610.6	729.3	966.6	1144.6	1166.6
122.5°	300.7	320.0	339.3	344.2	430.0	544.5	601.8	708.6	922.4	1082.7	1104.4
125°	327.3	344.8	362.5	366.9	442.0	542.1	592.2	682.9	864.5	1000.7	1020.7
127.5°	348.8	366.6	384.3	388.8	453.9	540.7	584.0	662.0	817.9	934.8	951.7
130°	360.3	379.5	398.7	403.5	462.6	541.5	580.9	650.3	789.1	893.2	908.8
132.5°	372.3	391.4	410.7	415.4	469.7	542.1	578.3	640.4	764.7	857.8	871.7
135°	390.0	407.5	424.9	429.3	477.4	541.5	573.7	625.7	729.7	807.7	819.8
137.5°	408.2	425.4	442.7	447.0	488.9	544.9	572.9	616.9	704.9	770.8	780.6
140°	423.1	439.1	455.0	459.0	496.0	545.5	570.2	608.2	684.2	741.1	750.3
142.5°	434.7	449.3	464.1	467.7	501.9	547.4	570.2	603.6	670.3	720.4	728.3
145°	452.4	465.2	478.1	481.3	509.7	547.5	566.4	593.7	648.3	689.2	695.2
147.5°	470.1	482.6	495.1	498.2	520.9	551.2	566.4	587.9	630.7	663.0	667.9
150°	481.7	493.0	504.3	507.1	526.9	553.2	566.4	584.5	620.8	648.0	652.0
152.5°	493.6	502.2	510.7	512.9	530.7	554.5	566.4	581.9	612.8	636.1	639.1
155°	511.3	517.6	524.0	525.6	539.2	557.3	566.4	578.7	603.3	621.8	623.8
157.5°	524.3	530.5	536.7	538.3	547.6	560.1	566.4	575.9	595.1	609.4	610.8
160°	533.2	538.1	542.8	544.1	551.5	561.4	566.4	574.6	590.9	603.3	604.1
162.5°	542.1	545.7	549.3	550.2	555.6	562.8	566.4	573.3	587.2	597.6	598.3
165°	551.7	555.0	558.2	559.0	561.4	564.7	566.4	571.3	581.2	588.7	589.5
167.5°	560.6	562.1	563.7	564.0	566.1	568.8	570.2	573.5	580.0	584.9	585.2
170°	566.4	567.9	569.5	569.8	569.9	570.1	570.2	573.5	580.0	584.9	584.9
172.5°	569.5	569.8	570.1	570.2	570.2	570.2	570.2	572.8	578.0	581.8	581.5
175°	573.7	573.7	573.7	573.7	572.5	571.0	570.2	571.8	575.1	577.5	577.5
177.5°	573.7	573.7	573.7	573.7	572.7	571.5	571.0	572.3	574.8	576.7	576.4
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	2024.8	2019.2	2024.8	2021.1	2023.0	2017.3	2000.5	1994.9	2000.5	2006.1	2006.1
5°	2049.1	2045.4	2049.1	2049.1	2047.2	2043.5	2024.8	2021.1	2024.8	2026.7	2023.0
7.5°	2056.6	2051.0	2056.6	2052.8	2052.8	2049.1	2030.4	2026.7	2028.6	2034.2	2028.6
10°	2056.6	2051.0	2056.6	2054.7	2052.8	2049.1	2030.4	2023.0	2023.0	2028.6	2023.0
12.5°	2047.2	2043.5	2047.2	2043.5	2043.5	2039.8	2021.1	2013.6	2015.5	2017.3	2009.9
15°	2032.3	2026.7	2032.3	2028.6	2030.4	2024.8	2004.3	1996.8	1996.8	2000.5	1987.5
17.5°	2009.9	2002.4	2009.9	2008.0	2006.1	2002.4	1983.7	1976.3	1974.4	1976.3	1966.9
20°	1983.7	1978.1	1983.7	1981.9	1981.9	1974.4	1955.7	1946.4	1946.4	1946.4	1937.0
22.5°	1942.6	1937.0	1942.6	1946.4	1946.4	1944.5	1927.7	1914.6	1910.9	1910.9	1899.7
25°	1895.9	1890.3	1895.9	1895.9	1894.1	1895.9	1890.3	1882.9	1877.2	1871.6	1860.4
27.5°	1851.1	1847.4	1851.1	1847.4	1851.1	1845.5	1843.6	1841.8	1834.3	1828.7	1813.7
30°	1806.3	1802.5	1806.3	1802.5	1798.8	1795.1	1785.7	1782.0	1789.5	1785.7	1761.4
32.5°	1750.2	1746.5	1750.2	1750.2	1746.5	1746.5	1731.5	1725.9	1727.8	1739.0	1716.6
35°	1692.3	1686.7	1692.3	1690.4	1692.3	1686.7	1677.4	1675.5	1668.0	1681.1	1664.3
37.5°	1625.1	1619.5	1625.1	1625.1	1625.1	1628.8	1621.3	1615.7	1604.5	1621.3	1608.3
40°	1556.0	1548.5	1556.0	1554.1	1556.0	1559.7	1556.0	1552.2	1541.0	1554.1	1542.9
42.5°	1477.5	1475.6	1477.5	1479.4	1479.4	1486.8	1492.4	1485.0	1481.2	1471.9	1479.4
45°	1393.4	1389.7	1393.4	1397.2	1399.0	1402.8	1419.6	1419.6	1414.0	1399.0	1410.2
47.5°	1303.8	1294.4	1303.8	1315.0	1315.0	1320.6	1337.4	1350.5	1341.1	1322.5	1328.1
50°	1208.5	1210.4	1208.5	1216.0	1216.0	1236.5	1249.6	1262.7	1272.0	1249.6	1223.4
52.5°	1115.1	1113.3	1115.1	1120.7	1128.2	1137.5	1159.9	1173.0	1188.0	1174.9	1133.8
55°	1021.8	1025.5	1021.8	1023.7	1027.4	1033.0	1066.6	1079.7	1107.7	1090.9	1047.9
57.5°	928.4	922.8	928.4	932.1	934.0	939.6	967.6	991.9	1008.7	1010.6	958.3
60°	820.1	812.6	820.1	836.9	840.6	844.3	870.5	892.9	907.8	913.5	859.3
62.5°	724.8	711.7	724.8	736.0	743.5	752.8	771.5	805.1	818.2	820.1	743.5
65°	623.9	618.3	623.9	646.3	648.2	659.4	680.0	704.2	732.3	728.5	618.3
67.5°	532.4	532.4	532.4	547.3	558.5	564.1	590.3	601.5	637.0	640.7	515.6
70°	448.3	446.5	448.3	459.5	467.0	480.1	504.4	517.4	545.5	554.8	418.4
72.5°	368.0	366.1	368.0	377.3	384.8	396.0	416.6	431.5	455.8	467.0	325.0
75°	297.0	293.3	297.0	304.5	302.6	317.6	334.4	349.3	371.7	379.2	241.0
77.5°	227.9	227.9	227.9	235.4	235.4	250.3	257.8	276.5	289.5	300.7	177.5
80°	170.0	168.1	170.0	171.9	171.9	179.3	192.4	205.5	216.7	216.7	121.4
82.5°	119.6	115.8	119.6	119.6	119.6	123.3	130.8	134.5	142.0	147.6	76.6
85°	74.7	74.7	74.7	76.6	74.7	78.5	80.3	84.1	84.1	80.3	46.7
87.5°	48.6	46.7	48.6	46.7	46.7	44.8	44.8	44.8	43.0	41.1	26.2
90°	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.2	25.1	16.9	10.7
92.5°	58.6	47.0	58.6	70.2	73.1	103.7	144.4	164.8	144.7	104.5	74.3
95°	204.3	169.1	204.3	239.6	248.4	326.2	429.8	481.7	406.8	257.0	144.8
97.5°	489.4	422.4	489.4	556.5	573.3	622.4	688.0	720.8	595.9	346.2	159.0
100°	705.2	625.2	705.2	785.0	805.0	801.5	796.7	794.3	655.8	378.7	170.9
102.5°	917.4	848.9	917.4	985.8	1002.9	940.4	856.9	815.1	674.6	393.6	182.9
105°	1188.0	1151.2	1188.0	1224.8	1234.0	1093.6	906.4	812.8	676.8	404.7	200.6
107.5°	1365.2	1374.1	1365.2	1356.4	1354.1	1158.3	897.1	766.5	646.6	406.7	226.8
110°	1432.8	1471.1	1432.8	1394.5	1384.8	1165.9	874.0	728.1	619.9	403.7	241.4





TEST NUMBER: P934408

CATALOG NUMBER: SQ4-FA-050U-075D-B50-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1438.8	1497.7	1438.8	1380.0	1365.2	1141.2	842.4	693.0	596.6	403.8	259.1
115°	1400.6	1482.3	1400.6	1319.0	1298.6	1082.8	795.0	651.1	569.9	407.5	285.7
117.5°	1319.8	1410.3	1319.8	1229.2	1206.6	1011.8	752.1	622.1	553.1	415.1	311.5
120°	1254.5	1342.5	1254.5	1166.6	1144.6	966.6	729.3	610.6	547.5	421.2	326.5
122.5°	1191.1	1277.9	1191.1	1104.4	1082.7	922.4	708.6	601.8	544.5	430.0	344.2
125°	1100.5	1180.5	1100.5	1020.7	1000.7	864.5	682.9	592.2	542.1	442.0	366.9
127.5°	1019.1	1086.5	1019.1	951.7	934.8	817.9	662.0	584.0	540.7	453.9	388.8
130°	971.1	1033.4	971.1	908.8	893.2	789.1	650.3	580.9	541.5	462.6	403.5
132.5°	927.6	983.3	927.6	871.7	857.8	764.7	640.4	578.3	542.1	469.7	415.4
135°	867.9	916.0	867.9	819.8	807.7	729.7	625.7	573.7	541.5	477.4	429.3
137.5°	820.1	859.4	820.1	780.6	770.8	704.9	616.9	572.9	544.9	488.9	447.0
140°	787.1	823.9	787.1	750.3	741.1	684.2	608.2	570.2	545.5	496.0	459.0
142.5°	759.9	791.6	759.9	728.3	720.4	670.3	603.6	570.2	547.4	501.9	467.7
145°	719.2	743.1	719.2	695.2	689.2	648.3	593.7	566.4	547.5	509.7	481.3
147.5°	687.8	707.7	687.8	667.9	663.0	630.7	587.9	566.4	551.2	520.9	498.2
150°	668.1	684.2	668.1	652.0	648.0	620.8	584.5	566.4	553.2	526.9	507.1
152.5°	651.3	663.4	651.3	639.1	636.1	612.8	581.9	566.4	554.5	530.7	512.9
155°	631.9	639.9	631.9	623.8	621.8	603.3	578.7	566.4	557.3	539.2	525.6
157.5°	616.5	622.1	616.5	610.8	609.4	595.1	575.9	566.4	560.1	547.6	538.3
160°	607.4	610.6	607.4	604.1	603.3	590.9	574.6	566.4	561.4	551.5	544.1
162.5°	601.4	604.5	601.4	598.3	597.6	587.2	573.3	566.4	562.8	555.6	550.2
165°	592.7	596.0	592.7	589.5	588.7	581.2	571.3	566.4	564.7	561.4	559.0
167.5°	586.6	588.0	586.6	585.2	584.9	580.0	573.5	570.2	568.8	566.1	564.0
170°	584.9	584.9	584.9	584.9	584.9	580.0	573.5	570.2	570.1	569.9	569.8
172.5°	580.3	579.1	580.3	581.5	581.8	578.0	572.8	570.2	570.2	570.2	570.2
175°	577.5	577.5	577.5	577.5	577.5	575.1	571.8	570.2	571.0	572.5	573.7
177.5°	575.1	573.7	575.1	576.4	576.7	574.8	572.3	571.0	571.5	572.7	573.7
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7



TEST NUMBER: P934408

CATALOG NUMBER: SQ4-FA-050U-075D-B50-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	2002.4	1991.2	1991.2	1972.5	1965.0	1959.4	1950.1	1922.1	1914.6	1907.1	1918.3
5°	2019.2	1998.7	1983.7	1950.1	1922.1	1910.9	1875.4	1808.1	1763.3	1729.7	1711.0
7.5°	2023.0	1996.8	1968.8	1916.5	1849.2	1819.3	1711.0	1587.7	1554.1	1524.2	1505.5
10°	2019.2	1989.3	1950.1	1871.6	1712.9	1660.6	1552.2	1471.9	1451.3	1445.7	1451.3
12.5°	2006.1	1978.1	1923.9	1793.2	1570.9	1535.4	1471.9	1425.2	1421.5	1430.8	1481.2
15°	1983.7	1957.6	1894.1	1688.6	1492.4	1466.3	1421.5	1404.6	1425.2	1490.6	1641.9
17.5°	1961.3	1931.4	1853.0	1585.8	1432.7	1414.0	1382.2	1415.9	1531.7	1619.5	1669.9
20°	1931.4	1895.9	1806.3	1511.1	1389.7	1372.9	1357.9	1509.3	1597.0	1628.8	1656.8
22.5°	1895.9	1858.6	1742.8	1458.8	1344.9	1331.8	1341.1	1561.6	1597.0	1619.5	1643.7
25°	1849.2	1817.5	1668.0	1417.7	1309.4	1294.4	1329.9	1556.0	1576.5	1582.1	1630.7
27.5°	1806.3	1765.2	1589.6	1380.4	1266.4	1260.8	1339.3	1531.7	1546.6	1552.2	1604.5
30°	1754.0	1692.3	1501.8	1341.1	1221.6	1219.7	1341.1	1501.8	1498.0	1513.0	1565.3
32.5°	1699.8	1584.0	1402.8	1292.6	1178.6	1176.7	1328.1	1456.9	1453.2	1473.8	1513.0
35°	1649.4	1499.9	1268.3	1236.5	1124.4	1126.3	1296.3	1404.6	1406.5	1425.2	1449.5
37.5°	1597.0	1427.1	1120.7	1174.9	1072.2	1072.2	1253.3	1356.1	1352.3	1357.9	1391.6
40°	1535.4	1313.1	990.0	1094.6	1023.7	1018.1	1201.0	1303.8	1290.7	1288.8	1335.5
42.5°	1470.0	1188.0	892.9	988.2	967.6	960.2	1137.5	1240.3	1216.0	1221.6	1281.4
45°	1399.0	1154.3	818.2	835.0	909.7	904.1	1068.5	1167.4	1150.6	1165.5	1227.2
47.5°	1328.1	1087.2	793.9	693.0	848.1	846.2	991.9	1096.5	1087.2	1102.1	1167.4
50°	1230.9	1012.5	792.0	594.0	779.0	786.4	900.4	1027.4	1027.4	1040.5	1109.6
52.5°	1105.9	920.9	719.2	538.0	698.6	721.0	820.1	967.6	971.4	984.4	1046.1
55°	991.9	825.7	666.9	495.0	603.4	651.9	741.6	906.0	913.5	926.5	982.6
57.5°	887.3	687.4	655.7	444.6	515.6	562.3	672.5	846.2	849.9	861.1	915.3
60°	775.2	496.9	601.5	390.4	439.0	474.5	609.0	775.2	788.3	795.8	842.5
62.5°	648.2	360.5	545.5	353.1	401.6	409.1	556.7	708.0	724.8	730.4	758.4
65°	461.4	302.6	463.3	321.3	362.4	364.3	500.6	638.9	653.8	663.1	683.7
67.5°	312.0	246.6	353.1	291.4	332.5	334.4	446.5	558.5	579.1	586.6	599.6
70°	216.7	164.4	261.5	259.7	298.9	302.6	388.5	485.7	504.4	510.0	517.4
72.5°	158.8	132.6	216.7	233.5	263.4	267.1	328.8	403.5	422.2	427.8	431.5
75°	121.4	140.1	175.6	203.6	224.2	226.0	269.0	328.8	341.8	345.6	347.4
77.5°	97.1	130.8	128.9	164.4	183.1	179.3	211.1	254.0	265.3	265.3	265.3
80°	72.9	102.7	97.1	117.7	134.5	130.8	151.3	181.2	184.9	188.7	186.8
82.5°	54.2	65.4	65.4	74.7	89.7	85.9	100.9	117.7	117.7	117.7	121.4
85°	33.6	37.4	29.9	39.2	50.4	48.6	56.0	63.5	65.4	65.4	61.6
87.5°	20.5	16.8	9.3	14.9	22.4	22.4	26.2	28.0	26.2	26.2	26.2
90°	10.0	6.9	3.8	6.9	10.0	10.7	16.9	25.1	29.2	26.0	19.5
92.5°	67.8	41.6	15.4	41.6	67.8	74.3	104.5	144.7	164.8	144.4	103.7
95°	132.8	84.9	37.0	84.9	132.8	144.8	257.0	406.8	481.7	429.8	326.2
97.5°	148.4	106.1	63.9	106.1	148.4	159.0	346.2	595.9	720.8	688.0	622.4
100°	161.3	123.0	84.7	123.0	161.3	170.9	378.7	655.8	794.3	796.7	801.5
102.5°	173.9	138.2	102.5	138.2	173.9	182.9	393.6	674.6	815.1	856.9	940.4
105°	193.1	162.7	132.4	162.7	193.1	200.6	404.7	676.8	812.8	906.4	1093.6
107.5°	219.7	191.5	163.3	191.5	219.7	226.8	406.7	646.6	766.5	897.1	1158.3
110°	235.1	209.5	184.0	209.5	235.1	241.4	403.7	619.9	728.1	874.0	1165.9



TEST NUMBER: P934408

CATALOG NUMBER: SQ4-FA-050U-075D-B50-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	253.0	228.7	204.5	228.7	253.0	259.1	403.8	596.6	693.0	842.4	1141.2
115°	280.1	257.7	235.3	257.7	280.1	285.7	407.5	569.9	651.1	795.0	1082.8
117.5°	306.4	286.0	265.6	286.0	306.4	311.5	415.1	553.1	622.1	752.1	1011.8
120°	321.8	302.5	283.4	302.5	321.8	326.5	421.2	547.5	610.6	729.3	966.6
122.5°	339.3	320.0	300.7	320.0	339.3	344.2	430.0	544.5	601.8	708.6	922.4
125°	362.5	344.8	327.3	344.8	362.5	366.9	442.0	542.1	592.2	682.9	864.5
127.5°	384.3	366.6	348.8	366.6	384.3	388.8	453.9	540.7	584.0	662.0	817.9
130°	398.7	379.5	360.3	379.5	398.7	403.5	462.6	541.5	580.9	650.3	789.1
132.5°	410.7	391.4	372.3	391.4	410.7	415.4	469.7	542.1	578.3	640.4	764.7
135°	424.9	407.5	390.0	407.5	424.9	429.3	477.4	541.5	573.7	625.7	729.7
137.5°	442.7	425.4	408.2	425.4	442.7	447.0	488.9	544.9	572.9	616.9	704.9
140°	455.0	439.1	423.1	439.1	455.0	459.0	496.0	545.5	570.2	608.2	684.2
142.5°	464.1	449.3	434.7	449.3	464.1	467.7	501.9	547.4	570.2	603.6	670.3
145°	478.1	465.2	452.4	465.2	478.1	481.3	509.7	547.5	566.4	593.7	648.3
147.5°	495.1	482.6	470.1	482.6	495.1	498.2	520.9	551.2	566.4	587.9	630.7
150°	504.3	493.0	481.7	493.0	504.3	507.1	526.9	553.2	566.4	584.5	620.8
152.5°	510.7	502.2	493.6	502.2	510.7	512.9	530.7	554.5	566.4	581.9	612.8
155°	524.0	517.6	511.3	517.6	524.0	525.6	539.2	557.3	566.4	578.7	603.3
157.5°	536.7	530.5	524.3	530.5	536.7	538.3	547.6	560.1	566.4	575.9	595.1
160°	542.8	538.1	533.2	538.1	542.8	544.1	551.5	561.4	566.4	574.6	590.9
162.5°	549.3	545.7	542.1	545.7	549.3	550.2	555.6	562.8	566.4	573.3	587.2
165°	558.2	555.0	551.7	555.0	558.2	559.0	561.4	564.7	566.4	571.3	581.2
167.5°	563.7	562.1	560.6	562.1	563.7	564.0	566.1	568.8	570.2	573.5	580.0
170°	569.5	567.9	566.4	567.9	569.5	569.8	569.9	570.1	570.2	573.5	580.0
172.5°	570.1	569.8	569.5	569.8	570.1	570.2	570.2	570.2	570.2	572.8	578.0
175°	573.7	573.7	573.7	573.7	573.7	573.7	572.5	571.0	570.2	571.8	575.1
177.5°	573.7	573.7	573.7	573.7	573.7	573.7	572.7	571.5	571.0	572.3	574.8
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7



TEST NUMBER: P934408  
 CATALOG NUMBER: SQ4-FA-050U-075D-B50-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1905.3	1899.7	1907.1	1886.6	1907.1	1899.7	1905.3	1918.3	1907.1	1914.6	1922.1
5°	1671.8	1662.4	1632.5	1608.3	1632.5	1662.4	1671.8	1711.0	1729.7	1763.3	1808.1
7.5°	1494.3	1486.8	1479.4	1464.4	1479.4	1486.8	1494.3	1505.5	1524.2	1554.1	1587.7
10°	1455.1	1456.9	1468.2	1466.3	1468.2	1456.9	1455.1	1451.3	1445.7	1451.3	1471.9
12.5°	1556.0	1572.8	1634.4	1630.7	1634.4	1572.8	1556.0	1481.2	1430.8	1421.5	1425.2
15°	1671.8	1677.4	1690.4	1692.3	1690.4	1677.4	1671.8	1641.9	1490.6	1425.2	1404.6
17.5°	1683.0	1684.8	1694.2	1694.2	1694.2	1684.8	1683.0	1669.9	1619.5	1531.7	1415.9
20°	1673.6	1677.4	1696.1	1699.8	1696.1	1677.4	1673.6	1656.8	1628.8	1597.0	1509.3
22.5°	1669.9	1677.4	1692.3	1690.4	1692.3	1677.4	1669.9	1643.7	1619.5	1597.0	1561.6
25°	1651.2	1651.2	1653.1	1655.0	1653.1	1651.2	1651.2	1630.7	1582.1	1576.5	1556.0
27.5°	1612.0	1615.7	1626.9	1625.1	1626.9	1615.7	1612.0	1604.5	1552.2	1546.6	1531.7
30°	1576.5	1572.8	1563.4	1556.0	1563.4	1572.8	1576.5	1565.3	1513.0	1498.0	1501.8
32.5°	1516.7	1507.4	1498.0	1492.4	1498.0	1507.4	1516.7	1513.0	1473.8	1453.2	1456.9
35°	1445.7	1447.6	1445.7	1440.1	1445.7	1447.6	1445.7	1449.5	1425.2	1406.5	1404.6
37.5°	1395.3	1399.0	1397.2	1389.7	1397.2	1399.0	1395.3	1391.6	1357.9	1352.3	1356.1
40°	1343.0	1344.9	1343.0	1337.4	1343.0	1344.9	1343.0	1335.5	1288.8	1290.7	1303.8
42.5°	1292.6	1290.7	1285.1	1281.4	1285.1	1290.7	1292.6	1281.4	1221.6	1216.0	1240.3
45°	1234.7	1236.5	1225.3	1219.7	1225.3	1236.5	1234.7	1227.2	1165.5	1150.6	1167.4
47.5°	1176.7	1176.7	1167.4	1161.8	1167.4	1176.7	1176.7	1167.4	1102.1	1087.2	1096.5
50°	1115.1	1113.3	1100.3	1098.4	1100.3	1113.3	1115.1	1109.6	1040.5	1027.4	1027.4
52.5°	1044.2	1044.2	1046.1	1049.8	1046.1	1044.2	1044.2	1046.1	984.4	971.4	967.6
55°	982.6	984.4	997.5	1001.2	997.5	984.4	982.6	982.6	926.5	913.5	906.0
57.5°	919.1	919.1	928.4	928.4	928.4	919.1	919.1	915.3	861.1	849.9	846.2
60°	846.2	849.9	857.4	855.5	857.4	849.9	846.2	842.5	795.8	788.3	775.2
62.5°	769.6	773.4	775.2	771.5	775.2	773.4	769.6	758.4	730.4	724.8	708.0
65°	689.3	693.0	694.9	691.2	694.9	693.0	689.3	683.7	663.1	653.8	638.9
67.5°	607.1	605.2	603.4	610.8	603.4	605.2	607.1	599.6	586.6	579.1	558.5
70°	523.0	523.0	521.2	524.9	521.2	523.0	523.0	517.4	510.0	504.4	485.7
72.5°	433.4	431.5	439.0	433.4	439.0	431.5	433.4	431.5	427.8	422.2	403.5
75°	345.6	349.3	345.6	351.2	345.6	349.3	345.6	347.4	345.6	341.8	328.8
77.5°	263.4	267.1	263.4	263.4	263.4	267.1	263.4	265.3	265.3	265.3	254.0
80°	186.8	184.9	184.9	183.1	184.9	184.9	186.8	186.8	188.7	184.9	181.2
82.5°	119.6	117.7	117.7	121.4	117.7	117.7	119.6	121.4	117.7	117.7	117.7
85°	65.4	67.2	63.5	63.5	63.5	67.2	65.4	61.6	65.4	65.4	63.5
87.5°	24.3	22.4	22.4	22.4	22.4	22.4	24.3	26.2	26.2	26.2	28.0
90°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.2	25.1
92.5°	73.1	70.2	58.6	47.0	58.6	70.2	73.1	103.7	144.4	164.8	144.7
95°	248.4	239.6	204.3	169.1	204.3	239.6	248.4	326.2	429.8	481.7	406.8
97.5°	573.3	556.5	489.4	422.4	489.4	556.5	573.3	622.4	688.0	720.8	595.9
100°	805.0	785.0	705.2	625.2	705.2	785.0	805.0	801.5	796.7	794.3	655.8
102.5°	1002.9	985.8	917.4	848.9	917.4	985.8	1002.9	940.4	856.9	815.1	674.6
105°	1234.0	1224.8	1188.0	1151.2	1188.0	1224.8	1234.0	1093.6	906.4	812.8	676.8
107.5°	1354.1	1356.4	1365.2	1374.1	1365.2	1356.4	1354.1	1158.3	897.1	766.5	646.6
110°	1384.8	1394.5	1432.8	1471.1	1432.8	1394.5	1384.8	1165.9	874.0	728.1	619.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1365.2	1380.0	1438.8	1497.7	1438.8	1380.0	1365.2	1141.2	842.4	693.0	596.6
115°	1298.6	1319.0	1400.6	1482.3	1400.6	1319.0	1298.6	1082.8	795.0	651.1	569.9
117.5°	1206.6	1229.2	1319.8	1410.3	1319.8	1229.2	1206.6	1011.8	752.1	622.1	553.1
120°	1144.6	1166.6	1254.5	1342.5	1254.5	1166.6	1144.6	966.6	729.3	610.6	547.5
122.5°	1082.7	1104.4	1191.1	1277.9	1191.1	1104.4	1082.7	922.4	708.6	601.8	544.5
125°	1000.7	1020.7	1100.5	1180.5	1100.5	1020.7	1000.7	864.5	682.9	592.2	542.1
127.5°	934.8	951.7	1019.1	1086.5	1019.1	951.7	934.8	817.9	662.0	584.0	540.7
130°	893.2	908.8	971.1	1033.4	971.1	908.8	893.2	789.1	650.3	580.9	541.5
132.5°	857.8	871.7	927.6	983.3	927.6	871.7	857.8	764.7	640.4	578.3	542.1
135°	807.7	819.8	867.9	916.0	867.9	819.8	807.7	729.7	625.7	573.7	541.5
137.5°	770.8	780.6	820.1	859.4	820.1	780.6	770.8	704.9	616.9	572.9	544.9
140°	741.1	750.3	787.1	823.9	787.1	750.3	741.1	684.2	608.2	570.2	545.5
142.5°	720.4	728.3	759.9	791.6	759.9	728.3	720.4	670.3	603.6	570.2	547.4
145°	689.2	695.2	719.2	743.1	719.2	695.2	689.2	648.3	593.7	566.4	547.5
147.5°	663.0	667.9	687.8	707.7	687.8	667.9	663.0	630.7	587.9	566.4	551.2
150°	648.0	652.0	668.1	684.2	668.1	652.0	648.0	620.8	584.5	566.4	553.2
152.5°	636.1	639.1	651.3	663.4	651.3	639.1	636.1	612.8	581.9	566.4	554.5
155°	621.8	623.8	631.9	639.9	631.9	623.8	621.8	603.3	578.7	566.4	557.3
157.5°	609.4	610.8	616.5	622.1	616.5	610.8	609.4	595.1	575.9	566.4	560.1
160°	603.3	604.1	607.4	610.6	607.4	604.1	603.3	590.9	574.6	566.4	561.4
162.5°	597.6	598.3	601.4	604.5	601.4	598.3	597.6	587.2	573.3	566.4	562.8
165°	588.7	589.5	592.7	596.0	592.7	589.5	588.7	581.2	571.3	566.4	564.7
167.5°	584.9	585.2	586.6	588.0	586.6	585.2	584.9	580.0	573.5	570.2	568.8
170°	584.9	584.9	584.9	584.9	584.9	584.9	584.9	580.0	573.5	570.2	570.1
172.5°	581.8	581.5	580.3	579.1	580.3	581.5	581.8	578.0	572.8	570.2	570.2
175°	577.5	577.5	577.5	577.5	577.5	577.5	577.5	575.1	571.8	570.2	571.0
177.5°	576.7	576.4	575.1	573.7	575.1	576.4	576.7	574.8	572.3	571.0	571.5
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1950.1	1959.4	1965.0	1972.5	1991.2
5°	1875.4	1910.9	1922.1	1950.1	1983.7
7.5°	1711.0	1819.3	1849.2	1916.5	1968.8
10°	1552.2	1660.6	1712.9	1871.6	1950.1
12.5°	1471.9	1535.4	1570.9	1793.2	1923.9
15°	1421.5	1466.3	1492.4	1688.6	1894.1
17.5°	1382.2	1414.0	1432.7	1585.8	1853.0
20°	1357.9	1372.9	1389.7	1511.1	1806.3
22.5°	1341.1	1331.8	1344.9	1458.8	1742.8
25°	1329.9	1294.4	1309.4	1417.7	1668.0
27.5°	1339.3	1260.8	1266.4	1380.4	1589.6
30°	1341.1	1219.7	1221.6	1341.1	1501.8
32.5°	1328.1	1176.7	1178.6	1292.6	1402.8
35°	1296.3	1126.3	1124.4	1236.5	1268.3
37.5°	1253.3	1072.2	1072.2	1174.9	1120.7
40°	1201.0	1018.1	1023.7	1094.6	990.0
42.5°	1137.5	960.2	967.6	988.2	892.9
45°	1068.5	904.1	909.7	835.0	818.2
47.5°	991.9	846.2	848.1	693.0	793.9
50°	900.4	786.4	779.0	594.0	792.0
52.5°	820.1	721.0	698.6	538.0	719.2
55°	741.6	651.9	603.4	495.0	666.9
57.5°	672.5	562.3	515.6	444.6	655.7
60°	609.0	474.5	439.0	390.4	601.5
62.5°	556.7	409.1	401.6	353.1	545.5
65°	500.6	364.3	362.4	321.3	463.3
67.5°	446.5	334.4	332.5	291.4	353.1
70°	388.5	302.6	298.9	259.7	261.5
72.5°	328.8	267.1	263.4	233.5	216.7
75°	269.0	226.0	224.2	203.6	175.6
77.5°	211.1	179.3	183.1	164.4	128.9
80°	151.3	130.8	134.5	117.7	97.1
82.5°	100.9	85.9	89.7	74.7	65.4
85°	56.0	48.6	50.4	39.2	29.9
87.5°	26.2	22.4	22.4	14.9	9.3
90°	16.9	10.7	10.0	6.9	3.8
92.5°	104.5	74.3	67.8	41.6	15.4
95°	257.0	144.8	132.8	84.9	37.0
97.5°	346.2	159.0	148.4	106.1	63.9
100°	378.7	170.9	161.3	123.0	84.7
102.5°	393.6	182.9	173.9	138.2	102.5
105°	404.7	200.6	193.1	162.7	132.4
107.5°	406.7	226.8	219.7	191.5	163.3
110°	403.7	241.4	235.1	209.5	184.0



TEST NUMBER: P934408

CATALOG NUMBER: SQ4-FA-050U-075D-B50-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	403.8	259.1	253.0	228.7	204.5
115°	407.5	285.7	280.1	257.7	235.3
117.5°	415.1	311.5	306.4	286.0	265.6
120°	421.2	326.5	321.8	302.5	283.4
122.5°	430.0	344.2	339.3	320.0	300.7
125°	442.0	366.9	362.5	344.8	327.3
127.5°	453.9	388.8	384.3	366.6	348.8
130°	462.6	403.5	398.7	379.5	360.3
132.5°	469.7	415.4	410.7	391.4	372.3
135°	477.4	429.3	424.9	407.5	390.0
137.5°	488.9	447.0	442.7	425.4	408.2
140°	496.0	459.0	455.0	439.1	423.1
142.5°	501.9	467.7	464.1	449.3	434.7
145°	509.7	481.3	478.1	465.2	452.4
147.5°	520.9	498.2	495.1	482.6	470.1
150°	526.9	507.1	504.3	493.0	481.7
152.5°	530.7	512.9	510.7	502.2	493.6
155°	539.2	525.6	524.0	517.6	511.3
157.5°	547.6	538.3	536.7	530.5	524.3
160°	551.5	544.1	542.8	538.1	533.2
162.5°	555.6	550.2	549.3	545.7	542.1
165°	561.4	559.0	558.2	555.0	551.7
167.5°	566.1	564.0	563.7	562.1	560.6
170°	569.9	569.8	569.5	567.9	566.4
172.5°	570.2	570.2	570.1	569.8	569.5
175°	572.5	573.7	573.7	573.7	573.7
177.5°	572.7	573.7	573.7	573.7	573.7
180°	573.7	573.7	573.7	573.7	573.7



TEST NUMBER: P934408  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.20	14.14	14.09	15.05	16.20	16.04	16.98	16.93	17.89	19.04
	3H	13.69	14.53	14.59	15.44	16.62	17.40	18.24	18.29	19.15	20.33
	4H	13.88	14.68	14.80	15.60	16.79	17.85	18.64	18.76	19.56	20.75
	6H	14.01	14.74	14.93	15.66	16.87	18.14	18.87	19.06	19.80	21.00
	8H	14.01	14.71	14.94	15.65	16.85	18.21	18.91	19.15	19.86	21.06
	12H	13.98	14.65	14.92	15.58	16.81	18.26	18.92	19.19	19.86	21.08
4H	2H	14.25	15.04	15.17	15.96	17.15	16.46	17.25	17.38	18.18	19.36
	3H	15.28	15.94	16.21	16.90	18.10	17.98	18.64	18.91	19.59	20.79
	4H	15.56	16.17	16.50	17.11	18.34	18.51	19.11	19.45	20.06	21.29
	6H	15.69	16.21	16.65	17.18	18.41	18.88	19.40	19.83	20.37	21.60
	8H	15.70	16.19	16.65	17.15	18.39	18.99	19.48	19.95	20.44	21.68
	12H	15.67	16.11	16.64	17.09	18.34	19.05	19.49	20.03	20.47	21.72
8H	4H	16.02	16.51	16.98	17.47	18.72	18.64	19.13	19.59	20.09	21.33
	6H	16.29	16.69	17.27	17.70	18.94	19.08	19.48	20.06	20.49	21.73
	8H	16.33	16.69	17.32	17.68	18.94	19.23	19.59	20.23	20.59	21.84
	12H	16.32	16.63	17.31	17.62	18.93	19.34	19.65	20.33	20.64	21.95
12H	4H	16.03	16.47	17.01	17.45	18.70	18.61	19.05	19.58	20.03	21.28
	6H	16.35	16.71	17.34	17.70	18.96	19.08	19.43	20.07	20.43	21.69
	8H	16.42	16.73	17.41	17.72	19.03	19.24	19.56	20.24	20.55	21.85