

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: P934419

Luminaire Tested: SQ4-FA-050U-100D-840-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934419
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

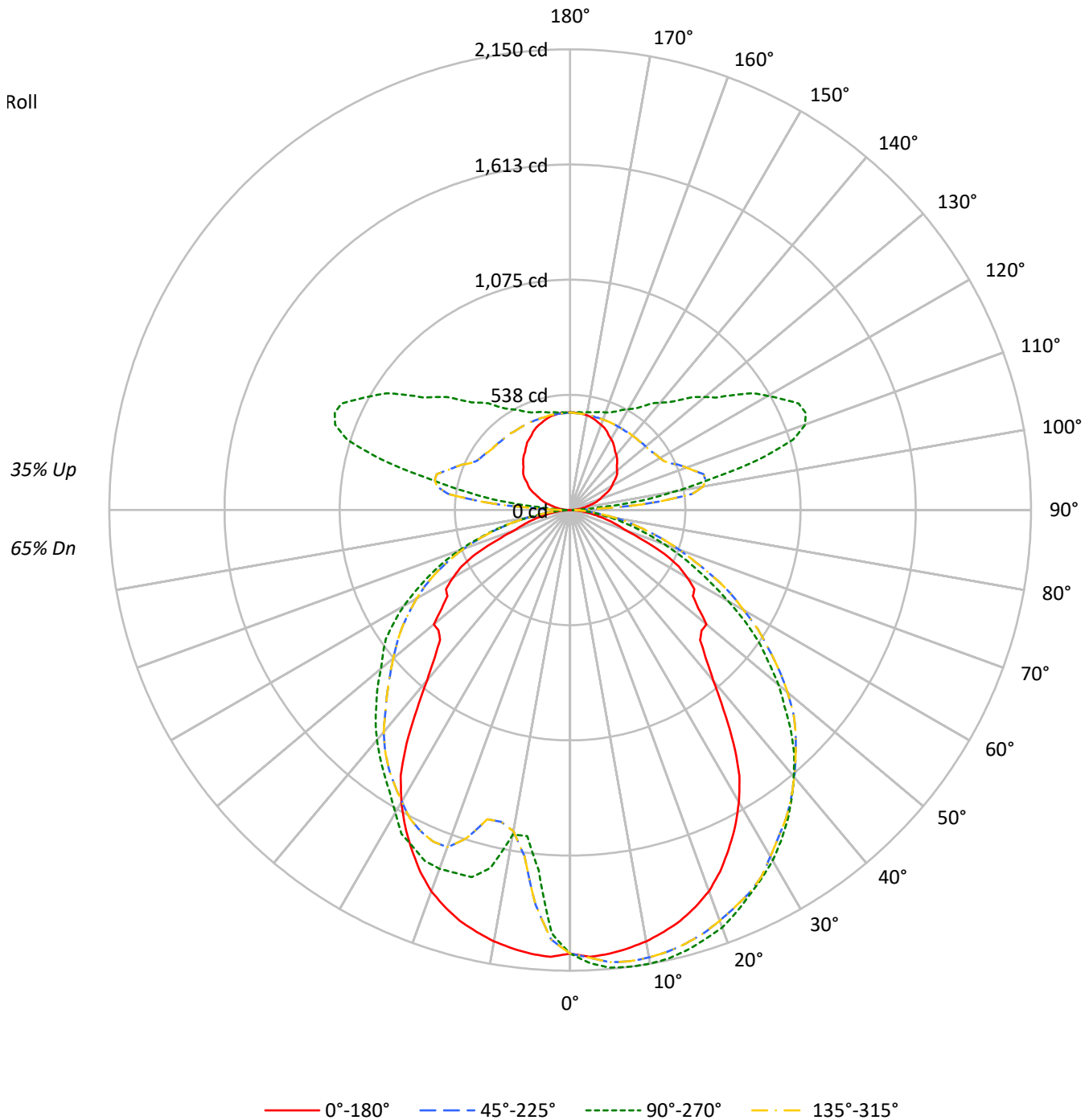
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8318.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.8
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				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12802	12802	12802	12802
5°	12893	12923	12893	10161
10°	12803	12730	12803	9101
15°	12658	12454	12658	10400
20°	12389	12127	12389	10421
25°	11842	11651	11842	10200
30°	11138	11255	11138	9716
35°	9924	10754	9924	9183
40°	8264	10166	8264	8780
45°	7380	9476	7380	8317
50°	7833	8654	7833	7852
55°	7364	7767	7364	7584
60°	7581	6597	7581	6946
65°	6863	5453	6863	6096
70°	4741	4346	4741	5109
75°	4143	3213	4143	3847
80°	3313	2125	3313	2313
85°	1866	1125	1866	957

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	2.2
10°-20°	530.4	6.4
20°-30°	819.9	9.9
30°-40°	978.8	11.8
40°-50°	984.5	11.8
50°-60°	856.7	10.3
60°-70°	607.4	7.3
70°-80°	321.3	3.9
80°-90°	81.8	1.0
90°-100°	221.9	2.7
100°-110°	583.3	7.0
110°-120°	604.8	7.3
120°-130°	485.1	5.8
130°-140°	380.6	4.6
140°-150°	292.2	3.5
150°-160°	210.4	2.5
160°-170°	128.7	1.5
170°-180°	43.5	0.5
0°-30°	1537.1	18.5
0°-40°	2515.9	30.2
0°-60°	4357.1	52.4
0°-90°	5367.6	64.5
90°-120°	1409.9	17.0
90°-150°	2567.8	30.9
90°-180°	2950.0	35.5
0°-180°	8318.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2070	2070	2070	2070	2070	
5°	2079	2144	2079	1686	2079	197
15°	1985	2124	1985	1774	1985	559
25°	1748	1981	1748	1735	1748	803
35°	1330	1768	1330	1510	1330	822
45°	858	1457	858	1278	858	687
55°	699	1075	699	1050	699	642
65°	486	648	486	724	486	464
75°	184	307	184	368	184	194
85°	31	78	31	67	31	42
90°	3	12	3	12	3	4
95°	29	134	29	134	29	33
105°	105	913	105	913	105	111
115°	187	1176	187	1176	187	184
125°	260	936	260	936	260	231
135°	309	727	309	727	309	239
145°	359	590	359	590	359	225
155°	406	508	406	508	406	186
165°	438	473	438	473	438	124
175°	455	458	455	458	455	43
180°	455	455	455	455	455	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2087.2	2087.2	2098.9	2102.8	2102.8	2096.9	2091.0	2096.9	2114.5	2120.4	2118.5
5°	2079.2	2095.0	2116.5	2120.4	2124.3	2122.3	2118.5	2122.3	2141.9	2145.8	2147.8
7.5°	2063.6	2093.0	2120.4	2126.3	2132.1	2126.3	2124.3	2128.3	2147.8	2151.8	2151.8
10°	2044.1	2085.2	2116.5	2120.4	2126.3	2120.4	2120.4	2128.3	2147.8	2151.8	2153.6
12.5°	2016.6	2073.4	2102.8	2106.7	2114.5	2112.5	2110.6	2118.5	2138.0	2141.9	2141.9
15°	1985.3	2051.9	2079.2	2083.2	2096.9	2093.0	2093.0	2100.8	2122.3	2128.3	2126.3
17.5°	1942.2	2024.4	2055.8	2061.7	2071.4	2069.5	2071.4	2079.2	2098.9	2102.8	2104.7
20°	1893.3	1987.3	2024.4	2030.3	2040.1	2040.1	2040.1	2049.9	2069.5	2077.4	2077.4
22.5°	1826.7	1948.1	1987.3	1991.2	2003.0	2003.0	2006.8	2020.6	2038.1	2040.1	2040.1
25°	1748.4	1905.1	1938.4	1950.0	1961.8	1967.7	1973.5	1981.4	1987.3	1985.3	1987.3
27.5°	1666.2	1850.2	1893.3	1901.1	1916.8	1922.6	1930.5	1932.4	1934.4	1940.2	1936.4
30°	1574.2	1773.9	1838.5	1846.3	1871.8	1875.6	1867.8	1871.8	1881.5	1885.5	1889.4
32.5°	1470.3	1660.3	1781.7	1799.3	1822.8	1811.0	1809.1	1815.0	1830.7	1830.7	1834.5
35°	1329.5	1572.2	1728.8	1744.5	1762.1	1748.4	1756.3	1758.1	1767.9	1773.9	1771.9
37.5°	1174.7	1495.8	1674.0	1685.7	1699.5	1681.9	1693.5	1699.5	1707.3	1703.4	1703.4
40°	1037.7	1376.4	1609.4	1617.3	1629.0	1615.3	1627.0	1630.9	1634.8	1630.9	1629.0
42.5°	935.8	1245.2	1540.9	1550.7	1542.9	1552.6	1556.5	1564.4	1558.5	1550.7	1550.7
45°	857.6	1210.0	1466.5	1478.2	1466.5	1482.1	1488.0	1488.0	1470.3	1466.5	1464.5
47.5°	832.1	1139.5	1392.1	1392.1	1386.2	1405.7	1415.5	1401.9	1384.2	1378.4	1378.4
50°	830.1	1061.2	1290.2	1282.4	1309.8	1333.3	1323.5	1309.8	1296.2	1274.6	1274.6
52.5°	753.7	965.3	1159.0	1188.5	1231.5	1245.2	1229.6	1215.8	1192.3	1182.5	1174.7
55°	699.0	865.4	1039.7	1098.4	1143.4	1161.0	1131.7	1117.9	1082.7	1076.8	1073.0
57.5°	687.3	720.5	930.0	1004.4	1059.2	1057.3	1039.7	1014.2	984.8	978.9	977.0
60°	630.4	520.8	812.5	900.7	957.4	951.5	935.8	912.4	885.0	881.1	877.1
62.5°	571.7	377.9	679.3	779.2	859.6	857.6	843.9	808.6	789.0	779.2	771.4
65°	485.6	317.1	483.6	648.0	763.6	767.5	738.1	712.6	691.1	679.3	677.5
67.5°	370.0	258.5	326.9	540.3	671.5	667.7	630.4	618.7	591.3	585.4	573.6
70°	274.1	172.3	227.1	438.6	581.5	571.7	542.3	528.7	503.2	489.5	481.6
72.5°	227.1	139.0	166.4	340.7	489.5	477.7	452.3	436.6	415.1	403.3	395.5
75°	184.1	146.8	127.3	252.5	397.5	389.7	366.2	350.4	332.9	317.1	319.1
77.5°	135.1	137.0	101.8	186.0	315.2	303.5	289.8	270.2	262.3	246.7	246.7
80°	101.8	107.7	76.4	127.3	227.1	227.1	215.4	201.7	187.9	180.1	180.1
82.5°	68.6	68.6	56.8	80.2	154.7	148.8	141.0	137.0	129.2	125.3	125.3
85°	31.3	39.1	35.3	48.9	84.2	88.1	88.1	84.2	82.2	78.3	80.2
87.5°	9.8	17.6	21.5	27.4	43.1	45.1	47.0	47.0	47.0	48.9	48.9
90°	3.1	5.5	8.0	8.6	13.4	20.0	23.2	20.6	15.4	11.6	11.6
92.5°	12.3	33.0	53.7	59.0	82.9	114.8	130.7	114.5	82.2	58.0	55.7
95°	29.3	67.3	105.3	114.8	203.9	322.8	382.2	341.1	258.8	197.0	190.0
97.5°	50.7	84.3	117.8	126.2	274.8	472.9	571.9	545.9	493.8	454.8	441.4
100°	67.2	97.6	128.0	135.7	300.5	520.3	630.1	632.0	635.9	638.7	622.9
102.5°	81.2	109.7	138.0	145.1	312.3	535.2	646.6	679.7	746.0	795.7	782.2
105°	105.1	129.1	153.1	159.2	321.0	536.9	644.8	719.1	867.6	979.0	971.7
107.5°	129.5	152.0	174.3	179.9	322.7	513.0	608.1	711.7	918.8	1074.3	1076.0
110°	146.0	166.2	186.4	191.5	320.2	491.8	577.6	693.4	925.1	1098.8	1106.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	162.2	181.5	200.8	205.6	320.3	473.4	549.8	668.4	905.4	1083.1	1094.8
115°	186.6	204.4	222.2	226.6	323.3	452.1	516.5	630.7	859.1	1030.3	1046.5
117.5°	210.7	226.9	243.0	247.1	329.3	438.9	493.6	596.7	802.8	957.3	975.3
120°	224.8	240.0	255.2	259.1	334.1	434.3	484.4	578.6	766.9	908.1	925.6
122.5°	238.6	253.9	269.2	273.1	341.2	432.0	477.4	562.2	731.8	859.0	876.2
125°	259.6	273.6	287.6	291.1	350.6	430.1	469.8	541.8	685.9	793.9	809.7
127.5°	276.7	290.9	305.0	308.6	360.1	429.0	463.4	525.2	648.8	741.6	754.9
130°	285.9	301.1	316.4	320.1	367.0	429.6	460.9	515.9	626.1	708.7	721.0
132.5°	295.4	310.6	325.8	329.6	372.7	430.1	458.8	508.1	606.6	680.5	691.6
135°	309.4	323.3	337.1	340.6	378.8	429.7	455.2	496.5	579.0	640.8	650.4
137.5°	323.8	337.5	351.1	354.6	387.9	432.2	454.5	489.4	559.1	611.5	619.3
140°	335.7	348.4	360.9	364.1	393.5	432.7	452.4	482.5	542.8	588.0	595.3
142.5°	344.8	356.5	368.1	371.1	398.2	434.3	452.4	478.9	531.7	571.5	577.8
145°	358.9	369.1	379.3	381.9	404.4	434.3	449.3	471.0	514.3	546.8	551.5
147.5°	373.0	382.8	392.8	395.3	413.3	437.3	449.3	466.3	500.4	526.0	530.0
150°	382.2	391.1	400.0	402.3	418.0	438.9	449.3	463.8	492.5	514.1	517.2
152.5°	391.5	398.4	405.2	406.9	421.0	439.9	449.3	461.6	486.2	504.6	506.9
155°	405.7	410.7	415.7	416.9	427.7	442.1	449.3	459.1	478.7	493.3	494.9
157.5°	416.0	420.9	425.8	427.0	434.4	444.4	449.3	457.0	472.2	483.5	484.6
160°	423.1	426.8	430.6	431.6	437.5	445.4	449.3	455.9	468.9	478.7	479.3
162.5°	430.1	432.9	435.8	436.5	440.7	446.5	449.3	454.9	465.8	474.0	474.6
165°	437.7	440.3	442.8	443.5	445.5	448.1	449.3	453.3	461.1	467.0	467.7
167.5°	444.7	445.9	447.2	447.5	449.1	451.3	452.4	455.0	460.1	464.0	464.3
170°	449.3	450.5	451.8	452.1	452.2	452.3	452.4	455.0	460.1	464.0	464.0
172.5°	451.8	452.1	452.3	452.4	452.4	452.4	452.4	454.4	458.4	461.5	461.3
175°	455.2	455.2	455.2	455.2	454.3	453.0	452.4	453.7	456.3	458.1	458.1
177.5°	455.2	455.2	455.2	455.2	454.5	453.5	453.0	454.0	456.1	457.5	457.2
180°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2122.3	2116.5	2122.3	2118.5	2120.4	2114.5	2096.9	2091.0	2096.9	2102.8	2102.8
5°	2147.8	2143.9	2147.8	2147.8	2145.8	2141.9	2122.3	2118.5	2122.3	2124.3	2120.4
7.5°	2155.6	2149.8	2155.6	2151.8	2151.8	2147.8	2128.3	2124.3	2126.3	2132.1	2126.3
10°	2155.6	2149.8	2155.6	2153.6	2151.8	2147.8	2128.3	2120.4	2120.4	2126.3	2120.4
12.5°	2145.8	2141.9	2145.8	2141.9	2141.9	2138.0	2118.5	2110.6	2112.5	2114.5	2106.7
15°	2130.2	2124.3	2130.2	2126.3	2128.3	2122.3	2100.8	2093.0	2093.0	2096.9	2083.2
17.5°	2106.7	2098.9	2106.7	2104.7	2102.8	2098.9	2079.2	2071.4	2069.5	2071.4	2061.7
20°	2079.2	2073.4	2079.2	2077.4	2077.4	2069.5	2049.9	2040.1	2040.1	2040.1	2030.3
22.5°	2036.2	2030.3	2036.2	2040.1	2040.1	2038.1	2020.6	2006.8	2003.0	2003.0	1991.2
25°	1987.3	1981.4	1987.3	1987.3	1985.3	1987.3	1981.4	1973.5	1967.7	1961.8	1950.0
27.5°	1940.2	1936.4	1940.2	1936.4	1940.2	1934.4	1932.4	1930.5	1922.6	1916.8	1901.1
30°	1893.3	1889.4	1893.3	1889.4	1885.5	1881.5	1871.8	1867.8	1875.6	1871.8	1846.3
32.5°	1834.5	1830.7	1834.5	1834.5	1830.7	1830.7	1815.0	1809.1	1811.0	1822.8	1799.3
35°	1773.9	1767.9	1773.9	1771.9	1773.9	1767.9	1758.1	1756.3	1748.4	1762.1	1744.5
37.5°	1703.4	1697.5	1703.4	1703.4	1703.4	1707.3	1699.5	1693.5	1681.9	1699.5	1685.7
40°	1630.9	1623.1	1630.9	1629.0	1630.9	1634.8	1630.9	1627.0	1615.3	1629.0	1617.3
42.5°	1548.7	1546.7	1548.7	1550.7	1550.7	1558.5	1564.4	1556.5	1552.6	1542.9	1550.7
45°	1460.6	1456.7	1460.6	1464.5	1466.5	1470.3	1488.0	1488.0	1482.1	1466.5	1478.2
47.5°	1366.6	1356.8	1366.6	1378.4	1378.4	1384.2	1401.9	1415.5	1405.7	1386.2	1392.1
50°	1266.7	1268.7	1266.7	1274.6	1274.6	1296.2	1309.8	1323.5	1333.3	1309.8	1282.4
52.5°	1168.9	1166.9	1168.9	1174.7	1182.5	1192.3	1215.8	1229.6	1245.2	1231.5	1188.5
55°	1071.0	1074.8	1071.0	1073.0	1076.8	1082.7	1117.9	1131.7	1161.0	1143.4	1098.4
57.5°	973.1	967.2	973.1	977.0	978.9	984.8	1014.2	1039.7	1057.3	1059.2	1004.4
60°	859.6	851.7	859.6	877.1	881.1	885.0	912.4	935.8	951.5	957.4	900.7
62.5°	759.7	745.9	759.7	771.4	779.2	789.0	808.6	843.9	857.6	859.6	779.2
65°	654.0	648.0	654.0	677.5	679.3	691.1	712.6	738.1	767.5	763.6	648.0
67.5°	558.0	558.0	558.0	573.6	585.4	591.3	618.7	630.4	667.7	671.5	540.3
70°	469.9	467.9	469.9	481.6	489.5	503.2	528.7	542.3	571.7	581.5	438.6
72.5°	385.7	383.7	385.7	395.5	403.3	415.1	436.6	452.3	477.7	489.5	340.7
75°	311.3	307.4	311.3	319.1	317.1	332.9	350.4	366.2	389.7	397.5	252.5
77.5°	238.9	238.9	238.9	246.7	246.7	262.3	270.2	289.8	303.5	315.2	186.0
80°	178.1	176.3	178.1	180.1	180.1	187.9	201.7	215.4	227.1	227.1	127.3
82.5°	125.3	121.4	125.3	125.3	125.3	129.2	137.0	141.0	148.8	154.7	80.2
85°	78.3	78.3	78.3	80.2	78.3	82.2	84.2	88.1	88.1	84.2	48.9
87.5°	50.9	48.9	50.9	48.9	48.9	47.0	47.0	47.0	45.1	43.1	27.4
90°	11.6	11.6	11.6	11.6	11.6	15.4	20.6	23.2	20.0	13.4	8.6
92.5°	46.4	37.2	46.4	55.7	58.0	82.2	114.5	130.7	114.8	82.9	59.0
95°	162.0	134.1	162.0	190.0	197.0	258.8	341.1	382.2	322.8	203.9	114.8
97.5°	388.3	335.1	388.3	441.4	454.8	493.8	545.9	571.9	472.9	274.8	126.2
100°	559.5	496.1	559.5	622.9	638.7	635.9	632.0	630.1	520.3	300.5	135.7
102.5°	727.9	673.5	727.9	782.2	795.7	746.0	679.7	646.6	535.2	312.3	145.1
105°	942.6	913.3	942.6	971.7	979.0	867.6	719.1	644.8	536.9	321.0	159.2
107.5°	1083.0	1090.2	1083.0	1076.0	1074.3	918.8	711.7	608.1	513.0	322.7	179.9
110°	1136.7	1167.1	1136.7	1106.4	1098.8	925.1	693.4	577.6	491.8	320.2	191.5



TEST NUMBER: P934419

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1141.5	1188.2	1141.5	1094.8	1083.1	905.4	668.4	549.8	473.4	320.3	205.6
115°	1111.2	1176.0	1111.2	1046.5	1030.3	859.1	630.7	516.5	452.1	323.3	226.6
117.5°	1047.1	1118.9	1047.1	975.3	957.3	802.8	596.7	493.6	438.9	329.3	247.1
120°	995.3	1065.2	995.3	925.6	908.1	766.9	578.6	484.4	434.3	334.1	259.1
122.5°	945.0	1013.8	945.0	876.2	859.0	731.8	562.2	477.4	432.0	341.2	273.1
125°	873.1	936.5	873.1	809.7	793.9	685.9	541.8	469.8	430.1	350.6	291.1
127.5°	808.5	862.0	808.5	754.9	741.6	648.8	525.2	463.4	429.0	360.1	308.6
130°	770.4	819.8	770.4	721.0	708.7	626.1	515.9	460.9	429.6	367.0	320.1
132.5°	735.9	780.1	735.9	691.6	680.5	606.6	508.1	458.8	430.1	372.7	329.6
135°	688.5	726.7	688.5	650.4	640.8	579.0	496.5	455.2	429.7	378.8	340.6
137.5°	650.6	681.8	650.6	619.3	611.5	559.1	489.4	454.5	432.2	387.9	354.6
140°	624.4	653.7	624.4	595.3	588.0	542.8	482.5	452.4	432.7	393.5	364.1
142.5°	602.9	628.0	602.9	577.8	571.5	531.7	478.9	452.4	434.3	398.2	371.1
145°	570.6	589.5	570.6	551.5	546.8	514.3	471.0	449.3	434.3	404.4	381.9
147.5°	545.7	561.4	545.7	530.0	526.0	500.4	466.3	449.3	437.3	413.3	395.3
150°	530.1	542.8	530.1	517.2	514.1	492.5	463.8	449.3	438.9	418.0	402.3
152.5°	516.6	526.3	516.6	506.9	504.6	486.2	461.6	449.3	439.9	421.0	406.9
155°	501.3	507.6	501.3	494.9	493.3	478.7	459.1	449.3	442.1	427.7	416.9
157.5°	489.2	493.6	489.2	484.6	483.5	472.2	457.0	449.3	444.4	434.4	427.0
160°	481.8	484.4	481.8	479.3	478.7	468.9	455.9	449.3	445.4	437.5	431.6
162.5°	477.1	479.6	477.1	474.6	474.0	465.8	454.9	449.3	446.5	440.7	436.5
165°	470.3	472.9	470.3	467.7	467.0	461.1	453.3	449.3	448.1	445.5	443.5
167.5°	465.3	466.4	465.3	464.3	464.0	460.1	455.0	452.4	451.3	449.1	447.5
170°	464.0	464.0	464.0	464.0	464.0	460.1	455.0	452.4	452.3	452.2	452.1
172.5°	460.3	459.4	460.3	461.3	461.5	458.4	454.4	452.4	452.4	452.4	452.4
175°	458.1	458.1	458.1	458.1	458.1	456.3	453.7	452.4	453.0	454.3	455.2
177.5°	456.3	455.2	456.3	457.2	457.5	456.1	454.0	453.0	453.5	454.5	455.2
180°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2



TEST NUMBER: P934419

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2098.9	2087.2	2087.2	2067.5	2059.7	2053.9	2044.1	2014.6	2006.8	1999.0	2010.8
5°	2116.5	2095.0	2079.2	2044.1	2014.6	2003.0	1965.7	1895.3	1848.3	1813.0	1793.4
7.5°	2120.4	2093.0	2063.6	2008.8	1938.4	1906.9	1793.4	1664.2	1629.0	1597.6	1578.0
10°	2116.5	2085.2	2044.1	1961.8	1795.4	1740.6	1627.0	1542.9	1521.3	1515.4	1521.3
12.5°	2102.8	2073.4	2016.6	1879.6	1646.6	1609.4	1542.9	1493.9	1490.0	1499.8	1552.6
15°	2079.2	2051.9	1985.3	1769.9	1564.4	1536.9	1490.0	1472.3	1493.9	1562.4	1721.0
17.5°	2055.8	2024.4	1942.2	1662.2	1501.7	1482.1	1448.8	1484.1	1605.5	1697.5	1750.3
20°	2024.4	1987.3	1893.3	1584.0	1456.7	1439.0	1423.4	1582.0	1674.0	1707.3	1736.6
22.5°	1987.3	1948.1	1826.7	1529.1	1409.7	1395.9	1405.7	1636.8	1674.0	1697.5	1723.0
25°	1938.4	1905.1	1748.4	1486.1	1372.5	1356.8	1394.1	1630.9	1652.4	1658.4	1709.2
27.5°	1893.3	1850.2	1666.2	1446.9	1327.5	1321.5	1403.8	1605.5	1621.1	1627.0	1681.9
30°	1838.5	1773.9	1574.2	1405.7	1280.4	1278.5	1405.7	1574.2	1570.2	1585.9	1640.7
32.5°	1781.7	1660.3	1470.3	1354.8	1235.4	1233.5	1392.1	1527.2	1523.2	1544.7	1585.9
35°	1728.8	1572.2	1329.5	1296.2	1178.7	1180.6	1358.8	1472.3	1474.3	1493.9	1519.3
37.5°	1674.0	1495.8	1174.7	1231.5	1123.8	1123.8	1313.7	1421.4	1417.5	1423.4	1458.6
40°	1609.4	1376.4	1037.7	1147.4	1073.0	1067.0	1258.9	1366.6	1352.9	1351.0	1399.9
42.5°	1540.9	1245.2	935.8	1035.7	1014.2	1006.4	1192.3	1300.0	1274.6	1280.4	1343.1
45°	1466.5	1210.0	857.6	875.2	953.5	947.6	1119.9	1223.6	1206.1	1221.8	1286.4
47.5°	1392.1	1139.5	832.1	726.4	888.9	886.9	1039.7	1149.2	1139.5	1155.2	1223.6
50°	1290.2	1061.2	830.1	622.6	816.5	824.3	943.7	1076.8	1076.8	1090.6	1163.0
52.5°	1159.0	965.3	753.7	563.9	732.2	755.7	859.6	1014.2	1018.1	1031.8	1096.4
55°	1039.7	865.4	699.0	518.8	632.4	683.3	777.3	949.6	957.4	971.1	1029.9
57.5°	930.0	720.5	687.3	465.9	540.3	589.3	704.8	886.9	890.9	902.6	959.3
60°	812.5	520.8	630.4	409.2	460.1	497.3	638.2	812.5	826.3	834.1	883.0
62.5°	679.3	377.9	571.7	370.0	421.0	428.8	583.4	742.1	759.7	765.5	794.9
65°	483.6	317.1	485.6	336.7	379.8	381.8	524.7	669.6	685.3	695.1	716.6
67.5°	326.9	258.5	370.0	305.4	348.5	350.4	467.9	585.4	606.9	614.7	628.5
70°	227.1	172.3	274.1	272.2	313.3	317.1	407.3	509.0	528.7	534.5	542.3
72.5°	166.4	139.0	227.1	244.7	276.0	280.0	344.6	422.9	442.5	448.4	452.3
75°	127.3	146.8	184.1	213.4	234.9	236.9	282.0	344.6	358.2	362.2	364.2
77.5°	101.8	137.0	135.1	172.3	191.9	187.9	221.2	266.3	278.0	278.0	278.0
80°	76.4	107.7	101.8	123.3	141.0	137.0	158.6	189.9	193.8	197.7	195.8
82.5°	56.8	68.6	68.6	78.3	94.0	90.1	105.7	123.3	123.3	123.3	127.3
85°	35.3	39.1	31.3	41.1	52.9	50.9	58.8	66.6	68.6	68.6	64.6
87.5°	21.5	17.6	9.8	15.7	23.5	23.5	27.4	29.3	27.4	27.4	27.4
90°	8.0	5.5	3.1	5.5	8.0	8.6	13.4	20.0	23.2	20.6	15.4
92.5°	53.7	33.0	12.3	33.0	53.7	59.0	82.9	114.8	130.7	114.5	82.2
95°	105.3	67.3	29.3	67.3	105.3	114.8	203.9	322.8	382.2	341.1	258.8
97.5°	117.8	84.3	50.7	84.3	117.8	126.2	274.8	472.9	571.9	545.9	493.8
100°	128.0	97.6	67.2	97.6	128.0	135.7	300.5	520.3	630.1	632.0	635.9
102.5°	138.0	109.7	81.2	109.7	138.0	145.1	312.3	535.2	646.6	679.7	746.0
105°	153.1	129.1	105.1	129.1	153.1	159.2	321.0	536.9	644.8	719.1	867.6
107.5°	174.3	152.0	129.5	152.0	174.3	179.9	322.7	513.0	608.1	711.7	918.8
110°	186.4	166.2	146.0	166.2	186.4	191.5	320.2	491.8	577.6	693.4	925.1



TEST NUMBER: P934419

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	200.8	181.5	162.2	181.5	200.8	205.6	320.3	473.4	549.8	668.4	905.4
115°	222.2	204.4	186.6	204.4	222.2	226.6	323.3	452.1	516.5	630.7	859.1
117.5°	243.0	226.9	210.7	226.9	243.0	247.1	329.3	438.9	493.6	596.7	802.8
120°	255.2	240.0	224.8	240.0	255.2	259.1	334.1	434.3	484.4	578.6	766.9
122.5°	269.2	253.9	238.6	253.9	269.2	273.1	341.2	432.0	477.4	562.2	731.8
125°	287.6	273.6	259.6	273.6	287.6	291.1	350.6	430.1	469.8	541.8	685.9
127.5°	305.0	290.9	276.7	290.9	305.0	308.6	360.1	429.0	463.4	525.2	648.8
130°	316.4	301.1	285.9	301.1	316.4	320.1	367.0	429.6	460.9	515.9	626.1
132.5°	325.8	310.6	295.4	310.6	325.8	329.6	372.7	430.1	458.8	508.1	606.6
135°	337.1	323.3	309.4	323.3	337.1	340.6	378.8	429.7	455.2	496.5	579.0
137.5°	351.1	337.5	323.8	337.5	351.1	354.6	387.9	432.2	454.5	489.4	559.1
140°	360.9	348.4	335.7	348.4	360.9	364.1	393.5	432.7	452.4	482.5	542.8
142.5°	368.1	356.5	344.8	356.5	368.1	371.1	398.2	434.3	452.4	478.9	531.7
145°	379.3	369.1	358.9	369.1	379.3	381.9	404.4	434.3	449.3	471.0	514.3
147.5°	392.8	382.8	373.0	382.8	392.8	395.3	413.3	437.3	449.3	466.3	500.4
150°	400.0	391.1	382.2	391.1	400.0	402.3	418.0	438.9	449.3	463.8	492.5
152.5°	405.2	398.4	391.5	398.4	405.2	406.9	421.0	439.9	449.3	461.6	486.2
155°	415.7	410.7	405.7	410.7	415.7	416.9	427.7	442.1	449.3	459.1	478.7
157.5°	425.8	420.9	416.0	420.9	425.8	427.0	434.4	444.4	449.3	457.0	472.2
160°	430.6	426.8	423.1	426.8	430.6	431.6	437.5	445.4	449.3	455.9	468.9
162.5°	435.8	432.9	430.1	432.9	435.8	436.5	440.7	446.5	449.3	454.9	465.8
165°	442.8	440.3	437.7	440.3	442.8	443.5	445.5	448.1	449.3	453.3	461.1
167.5°	447.2	445.9	444.7	445.9	447.2	447.5	449.1	451.3	452.4	455.0	460.1
170°	451.8	450.5	449.3	450.5	451.8	452.1	452.2	452.3	452.4	455.0	460.1
172.5°	452.3	452.1	451.8	452.1	452.3	452.4	452.4	452.4	452.4	454.4	458.4
175°	455.2	455.2	455.2	455.2	455.2	455.2	454.3	453.0	452.4	453.7	456.3
177.5°	455.2	455.2	455.2	455.2	455.2	455.2	454.5	453.5	453.0	454.0	456.1
180°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2



TEST NUMBER: P934419
 CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	1997.0	1991.2	1999.0	1977.5	1999.0	1991.2	1997.0	2010.8	1999.0	2006.8	2014.6
5°	1752.3	1742.5	1711.2	1685.7	1711.2	1742.5	1752.3	1793.4	1813.0	1848.3	1895.3
7.5°	1566.3	1558.5	1550.7	1535.0	1550.7	1558.5	1566.3	1578.0	1597.6	1629.0	1664.2
10°	1525.2	1527.2	1538.9	1536.9	1538.9	1527.2	1525.2	1521.3	1515.4	1521.3	1542.9
12.5°	1630.9	1648.6	1713.2	1709.2	1713.2	1648.6	1630.9	1552.6	1499.8	1490.0	1493.9
15°	1752.3	1758.1	1771.9	1773.9	1771.9	1758.1	1752.3	1721.0	1562.4	1493.9	1472.3
17.5°	1764.1	1766.0	1775.8	1775.8	1775.8	1766.0	1764.1	1750.3	1697.5	1605.5	1484.1
20°	1754.3	1758.1	1777.8	1781.7	1777.8	1758.1	1754.3	1736.6	1707.3	1674.0	1582.0
22.5°	1750.3	1758.1	1773.9	1771.9	1773.9	1758.1	1750.3	1723.0	1697.5	1674.0	1636.8
25°	1730.8	1730.8	1732.8	1734.7	1732.8	1730.8	1730.8	1709.2	1658.4	1652.4	1630.9
27.5°	1689.7	1693.5	1705.3	1703.4	1705.3	1693.5	1689.7	1681.9	1627.0	1621.1	1605.5
30°	1652.4	1648.6	1638.8	1630.9	1638.8	1648.6	1652.4	1640.7	1585.9	1570.2	1574.2
32.5°	1589.8	1580.0	1570.2	1564.4	1570.2	1580.0	1589.8	1585.9	1544.7	1523.2	1527.2
35°	1515.4	1517.4	1515.4	1509.6	1515.4	1517.4	1515.4	1519.3	1493.9	1474.3	1472.3
37.5°	1462.5	1466.5	1464.5	1456.7	1464.5	1466.5	1462.5	1458.6	1423.4	1417.5	1421.4
40°	1407.7	1409.7	1407.7	1401.9	1407.7	1409.7	1407.7	1399.9	1351.0	1352.9	1366.6
42.5°	1354.8	1352.9	1347.0	1343.1	1347.0	1352.9	1354.8	1343.1	1280.4	1274.6	1300.0
45°	1294.2	1296.2	1284.4	1278.5	1284.4	1296.2	1294.2	1286.4	1221.8	1206.1	1223.6
47.5°	1233.5	1233.5	1223.6	1217.8	1223.6	1233.5	1233.5	1223.6	1155.2	1139.5	1149.2
50°	1168.9	1166.9	1153.2	1151.2	1153.2	1166.9	1168.9	1163.0	1090.6	1076.8	1076.8
52.5°	1094.5	1094.5	1096.4	1100.3	1096.4	1094.5	1094.5	1096.4	1031.8	1018.1	1014.2
55°	1029.9	1031.8	1045.5	1049.5	1045.5	1031.8	1029.9	1029.9	971.1	957.4	949.6
57.5°	963.3	963.3	973.1	973.1	973.1	963.3	963.3	959.3	902.6	890.9	886.9
60°	886.9	890.9	898.7	896.7	898.7	890.9	886.9	883.0	834.1	826.3	812.5
62.5°	806.6	810.6	812.5	808.6	812.5	810.6	806.6	794.9	765.5	759.7	742.1
65°	722.4	726.4	728.4	724.4	728.4	726.4	722.4	716.6	695.1	685.3	669.6
67.5°	636.3	634.4	632.4	640.2	632.4	634.4	636.3	628.5	614.7	606.9	585.4
70°	548.2	548.2	546.3	550.1	546.3	548.2	548.2	542.3	534.5	528.7	509.0
72.5°	454.2	452.3	460.1	454.2	460.1	452.3	454.2	452.3	448.4	442.5	422.9
75°	362.2	366.2	362.2	368.1	362.2	366.2	362.2	364.2	362.2	358.2	344.6
77.5°	276.0	280.0	276.0	276.0	276.0	280.0	276.0	278.0	278.0	278.0	266.3
80°	195.8	193.8	193.8	191.9	193.8	193.8	195.8	195.8	197.7	193.8	189.9
82.5°	125.3	123.3	123.3	127.3	123.3	123.3	125.3	127.3	123.3	123.3	123.3
85°	68.6	70.4	66.6	66.6	66.6	70.4	68.6	64.6	68.6	68.6	66.6
87.5°	25.5	23.5	23.5	23.5	23.5	23.5	25.5	27.4	27.4	27.4	29.3
90°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	15.4	20.6	23.2	20.0
92.5°	58.0	55.7	46.4	37.2	46.4	55.7	58.0	82.2	114.5	130.7	114.8
95°	197.0	190.0	162.0	134.1	162.0	190.0	197.0	258.8	341.1	382.2	322.8
97.5°	454.8	441.4	388.3	335.1	388.3	441.4	454.8	493.8	545.9	571.9	472.9
100°	638.7	622.9	559.5	496.1	559.5	622.9	638.7	635.9	632.0	630.1	520.3
102.5°	795.7	782.2	727.9	673.5	727.9	782.2	795.7	746.0	679.7	646.6	535.2
105°	979.0	971.7	942.6	913.3	942.6	971.7	979.0	867.6	719.1	644.8	536.9
107.5°	1074.3	1076.0	1083.0	1090.2	1083.0	1076.0	1074.3	918.8	711.7	608.1	513.0
110°	1098.8	1106.4	1136.7	1167.1	1136.7	1106.4	1098.8	925.1	693.4	577.6	491.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1083.1	1094.8	1141.5	1188.2	1141.5	1094.8	1083.1	905.4	668.4	549.8	473.4
115°	1030.3	1046.5	1111.2	1176.0	1111.2	1046.5	1030.3	859.1	630.7	516.5	452.1
117.5°	957.3	975.3	1047.1	1118.9	1047.1	975.3	957.3	802.8	596.7	493.6	438.9
120°	908.1	925.6	995.3	1065.2	995.3	925.6	908.1	766.9	578.6	484.4	434.3
122.5°	859.0	876.2	945.0	1013.8	945.0	876.2	859.0	731.8	562.2	477.4	432.0
125°	793.9	809.7	873.1	936.5	873.1	809.7	793.9	685.9	541.8	469.8	430.1
127.5°	741.6	754.9	808.5	862.0	808.5	754.9	741.6	648.8	525.2	463.4	429.0
130°	708.7	721.0	770.4	819.8	770.4	721.0	708.7	626.1	515.9	460.9	429.6
132.5°	680.5	691.6	735.9	780.1	735.9	691.6	680.5	606.6	508.1	458.8	430.1
135°	640.8	650.4	688.5	726.7	688.5	650.4	640.8	579.0	496.5	455.2	429.7
137.5°	611.5	619.3	650.6	681.8	650.6	619.3	611.5	559.1	489.4	454.5	432.2
140°	588.0	595.3	624.4	653.7	624.4	595.3	588.0	542.8	482.5	452.4	432.7
142.5°	571.5	577.8	602.9	628.0	602.9	577.8	571.5	531.7	478.9	452.4	434.3
145°	546.8	551.5	570.6	589.5	570.6	551.5	546.8	514.3	471.0	449.3	434.3
147.5°	526.0	530.0	545.7	561.4	545.7	530.0	526.0	500.4	466.3	449.3	437.3
150°	514.1	517.2	530.1	542.8	530.1	517.2	514.1	492.5	463.8	449.3	438.9
152.5°	504.6	506.9	516.6	526.3	516.6	506.9	504.6	486.2	461.6	449.3	439.9
155°	493.3	494.9	501.3	507.6	501.3	494.9	493.3	478.7	459.1	449.3	442.1
157.5°	483.5	484.6	489.2	493.6	489.2	484.6	483.5	472.2	457.0	449.3	444.4
160°	478.7	479.3	481.8	484.4	481.8	479.3	478.7	468.9	455.9	449.3	445.4
162.5°	474.0	474.6	477.1	479.6	477.1	474.6	474.0	465.8	454.9	449.3	446.5
165°	467.0	467.7	470.3	472.9	470.3	467.7	467.0	461.1	453.3	449.3	448.1
167.5°	464.0	464.3	465.3	466.4	465.3	464.3	464.0	460.1	455.0	452.4	451.3
170°	464.0	464.0	464.0	464.0	464.0	464.0	464.0	460.1	455.0	452.4	452.3
172.5°	461.5	461.3	460.3	459.4	460.3	461.3	461.5	458.4	454.4	452.4	452.4
175°	458.1	458.1	458.1	458.1	458.1	458.1	458.1	456.3	453.7	452.4	453.0
177.5°	457.5	457.2	456.3	455.2	456.3	457.2	457.5	456.1	454.0	453.0	453.5
180°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2044.1	2053.9	2059.7	2067.5	2087.2
5°	1965.7	2003.0	2014.6	2044.1	2079.2
7.5°	1793.4	1906.9	1938.4	2008.8	2063.6
10°	1627.0	1740.6	1795.4	1961.8	2044.1
12.5°	1542.9	1609.4	1646.6	1879.6	2016.6
15°	1490.0	1536.9	1564.4	1769.9	1985.3
17.5°	1448.8	1482.1	1501.7	1662.2	1942.2
20°	1423.4	1439.0	1456.7	1584.0	1893.3
22.5°	1405.7	1395.9	1409.7	1529.1	1826.7
25°	1394.1	1356.8	1372.5	1486.1	1748.4
27.5°	1403.8	1321.5	1327.5	1446.9	1666.2
30°	1405.7	1278.5	1280.4	1405.7	1574.2
32.5°	1392.1	1233.5	1235.4	1354.8	1470.3
35°	1358.8	1180.6	1178.7	1296.2	1329.5
37.5°	1313.7	1123.8	1123.8	1231.5	1174.7
40°	1258.9	1067.0	1073.0	1147.4	1037.7
42.5°	1192.3	1006.4	1014.2	1035.7	935.8
45°	1119.9	947.6	953.5	875.2	857.6
47.5°	1039.7	886.9	888.9	726.4	832.1
50°	943.7	824.3	816.5	622.6	830.1
52.5°	859.6	755.7	732.2	563.9	753.7
55°	777.3	683.3	632.4	518.8	699.0
57.5°	704.8	589.3	540.3	465.9	687.3
60°	638.2	497.3	460.1	409.2	630.4
62.5°	583.4	428.8	421.0	370.0	571.7
65°	524.7	381.8	379.8	336.7	485.6
67.5°	467.9	350.4	348.5	305.4	370.0
70°	407.3	317.1	313.3	272.2	274.1
72.5°	344.6	280.0	276.0	244.7	227.1
75°	282.0	236.9	234.9	213.4	184.1
77.5°	221.2	187.9	191.9	172.3	135.1
80°	158.6	137.0	141.0	123.3	101.8
82.5°	105.7	90.1	94.0	78.3	68.6
85°	58.8	50.9	52.9	41.1	31.3
87.5°	27.4	23.5	23.5	15.7	9.8
90°	13.4	8.6	8.0	5.5	3.1
92.5°	82.9	59.0	53.7	33.0	12.3
95°	203.9	114.8	105.3	67.3	29.3
97.5°	274.8	126.2	117.8	84.3	50.7
100°	300.5	135.7	128.0	97.6	67.2
102.5°	312.3	145.1	138.0	109.7	81.2
105°	321.0	159.2	153.1	129.1	105.1
107.5°	322.7	179.9	174.3	152.0	129.5
110°	320.2	191.5	186.4	166.2	146.0



TEST NUMBER: P934419

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	320.3	205.6	200.8	181.5	162.2
115°	323.3	226.6	222.2	204.4	186.6
117.5°	329.3	247.1	243.0	226.9	210.7
120°	334.1	259.1	255.2	240.0	224.8
122.5°	341.2	273.1	269.2	253.9	238.6
125°	350.6	291.1	287.6	273.6	259.6
127.5°	360.1	308.6	305.0	290.9	276.7
130°	367.0	320.1	316.4	301.1	285.9
132.5°	372.7	329.6	325.8	310.6	295.4
135°	378.8	340.6	337.1	323.3	309.4
137.5°	387.9	354.6	351.1	337.5	323.8
140°	393.5	364.1	360.9	348.4	335.7
142.5°	398.2	371.1	368.1	356.5	344.8
145°	404.4	381.9	379.3	369.1	358.9
147.5°	413.3	395.3	392.8	382.8	373.0
150°	418.0	402.3	400.0	391.1	382.2
152.5°	421.0	406.9	405.2	398.4	391.5
155°	427.7	416.9	415.7	410.7	405.7
157.5°	434.4	427.0	425.8	420.9	416.0
160°	437.5	431.6	430.6	426.8	423.1
162.5°	440.7	436.5	435.8	432.9	430.1
165°	445.5	443.5	442.8	440.3	437.7
167.5°	449.1	447.5	447.2	445.9	444.7
170°	452.2	452.1	451.8	450.5	449.3
172.5°	452.4	452.4	452.3	452.1	451.8
175°	454.3	455.2	455.2	455.2	455.2
177.5°	454.5	455.2	455.2	455.2	455.2
180°	455.2	455.2	455.2	455.2	455.2



TEST NUMBER: P934419
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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	14.90	15.91	15.72	16.76	17.80	17.73	18.74	18.55	19.58	20.63
	3H	15.39	16.30	16.23	17.15	18.23	19.08	19.99	19.92	20.84	21.92
	4H	15.59	16.44	16.44	17.31	18.39	19.53	20.39	20.38	21.25	22.33
	6H	15.72	16.50	16.58	17.37	18.47	19.82	20.61	20.69	21.48	22.58
	8H	15.72	16.47	16.59	17.36	18.46	19.90	20.65	20.77	21.54	22.64
	12H	15.70	16.41	16.58	17.29	18.42	19.94	20.66	20.82	21.54	22.67
4H	2H	15.95	16.81	16.81	17.67	18.75	18.16	19.01	19.01	19.87	20.96
	3H	16.99	17.71	17.86	18.60	19.70	19.67	20.39	20.54	21.28	22.38
	4H	17.28	17.92	18.16	18.81	19.94	20.21	20.85	21.09	21.74	22.87
	6H	17.41	17.97	18.30	18.88	20.01	20.58	21.14	21.47	22.05	23.18
	8H	17.42	17.94	18.32	18.85	19.99	20.69	21.21	21.59	22.12	23.26
	12H	17.39	17.86	18.31	18.79	19.94	20.75	21.22	21.67	22.15	23.30
8H	4H	17.74	18.26	18.64	19.17	20.32	20.34	20.87	21.24	21.77	22.92
	6H	18.01	18.44	18.93	19.39	20.54	20.78	21.22	21.71	22.17	23.31
	8H	18.05	18.44	18.99	19.38	20.54	20.94	21.32	21.87	22.26	23.42
	12H	18.04	18.38	18.98	19.32	20.53	21.04	21.38	21.98	22.31	23.52
12H	4H	17.75	18.22	18.67	19.15	20.30	20.31	20.79	21.23	21.71	22.86
	6H	18.07	18.45	19.00	19.40	20.56	20.78	21.17	21.72	22.11	23.27
	8H	18.14	18.48	19.08	19.42	20.63	20.95	21.29	21.89	22.22	23.43