

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: P935318

Luminaire Tested: SQ4-FA-100U-125D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935318
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

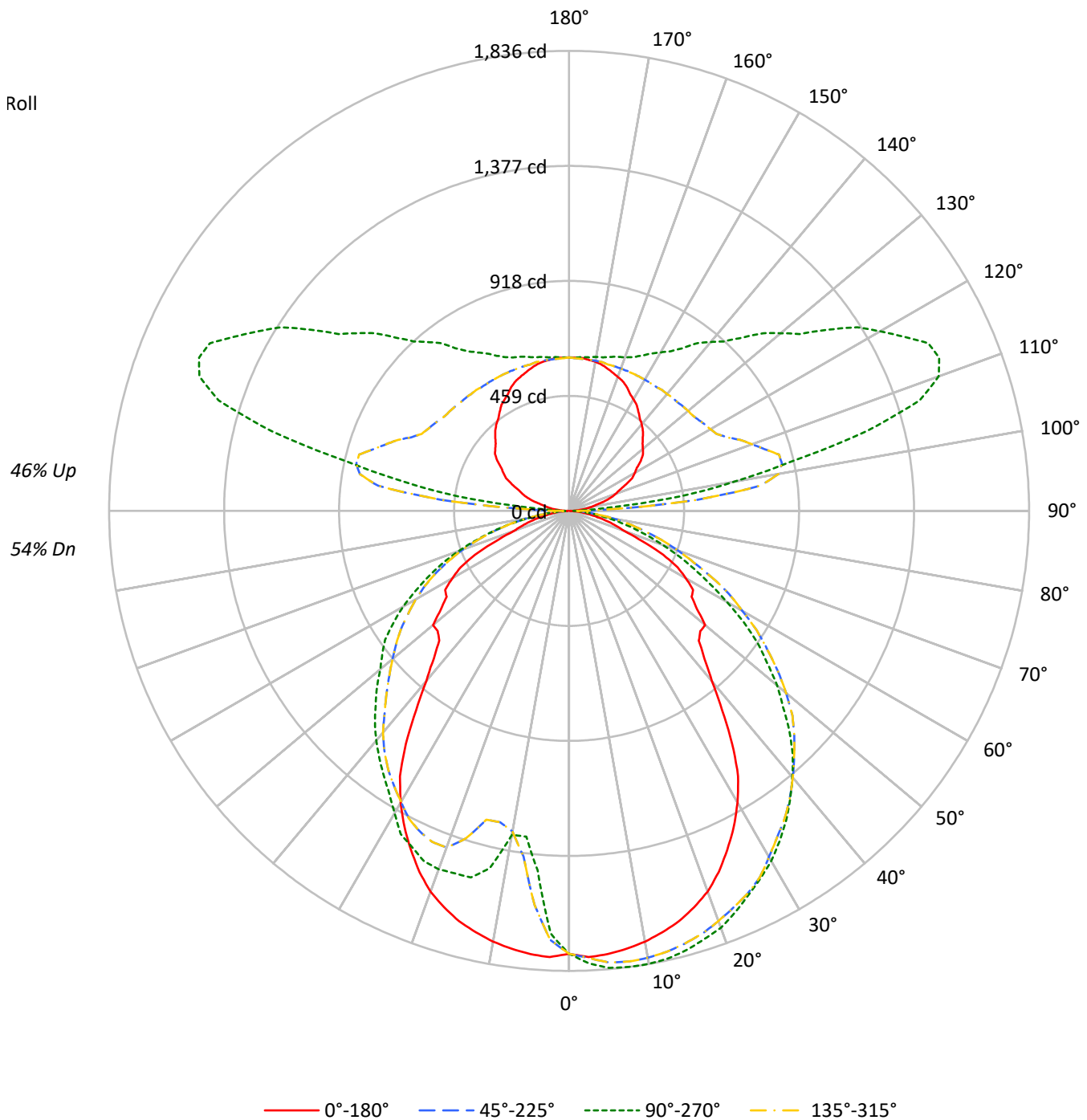
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8554.1 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 68.8
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54			
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45			
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38			
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32			
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28			
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24			
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21			
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19			
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17			
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15			
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16399	16399	16399	16399
5°	16503	16555	16503	13017
10°	16376	16307	16376	11659
15°	16179	15954	16179	13321
20°	15823	15535	15823	13349
25°	15111	14924	15111	13066
30°	14199	14418	14199	12446
35°	12639	13777	12639	11763
40°	10513	13022	10513	11247
45°	9375	12139	9375	10654
50°	9938	11085	9938	10059
55°	9324	9951	9324	9715
60°	9577	8452	9577	8898
65°	8642	6987	8642	7810
70°	5943	5567	5943	6545
75°	5155	4115	5155	4929
80°	4067	2721	4067	2961
85°	2219	1441	2219	1224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	1.9
10°-20°	453.0	5.3
20°-30°	700.2	8.2
30°-40°	835.9	9.8
40°-50°	840.8	9.8
50°-60°	731.6	8.6
60°-70°	518.7	6.1
70°-80°	274.4	3.2
80°-90°	70.7	0.8
90°-100°	298.5	3.5
100°-110°	784.7	9.2
110°-120°	813.7	9.5
120°-130°	652.6	7.6
130°-140°	512.1	6.0
140°-150°	393.1	4.6
150°-160°	283.1	3.3
160°-170°	173.2	2.0
170°-180°	58.5	0.7
0°-30°	1312.7	15.3
0°-40°	2148.5	25.1
0°-60°	3720.9	43.5
0°-90°	4584.7	53.6
90°-120°	1896.8	22.2
90°-150°	3454.6	40.4
90°-180°	3969.0	46.4
0°-180°	8554.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1767	1767	1767	1767	1767	
5°	1776	1831	1776	1440	1776	168
15°	1695	1814	1695	1515	1695	477
25°	1493	1692	1493	1481	1493	686
35°	1135	1510	1135	1289	1135	702
45°	732	1244	732	1092	732	587
55°	597	918	597	896	597	548
65°	415	554	415	619	415	396
75°	157	262	157	314	157	165
85°	27	67	27	57	27	36
90°	4	16	4	16	4	5
95°	39	180	39	180	39	44
105°	141	1229	141	1229	141	150
115°	251	1582	251	1582	251	248
125°	349	1260	349	1260	349	310
135°	416	978	416	978	416	322
145°	483	793	483	793	483	303
155°	546	683	546	683	546	251
165°	589	636	589	636	589	166
175°	612	616	612	616	612	58
180°	612	612	612	612	612	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1782.4	1782.4	1792.4	1795.8	1795.8	1790.8	1785.7	1790.8	1805.8	1810.8	1809.1
5°	1775.6	1789.1	1807.4	1810.8	1814.2	1812.5	1809.1	1812.5	1829.2	1832.5	1834.2
7.5°	1762.3	1787.4	1810.8	1815.8	1820.8	1815.8	1814.2	1817.5	1834.2	1837.6	1837.6
10°	1745.6	1780.7	1807.4	1810.8	1815.8	1810.8	1810.8	1817.5	1834.2	1837.6	1839.3
12.5°	1722.2	1770.7	1795.8	1799.0	1805.8	1804.1	1802.4	1809.1	1825.8	1829.2	1829.2
15°	1695.4	1752.3	1775.6	1779.0	1790.8	1787.4	1787.4	1794.1	1812.5	1817.5	1815.8
17.5°	1658.7	1728.9	1755.6	1760.6	1769.0	1767.3	1769.0	1775.6	1792.4	1795.8	1797.4
20°	1616.9	1697.1	1728.9	1733.8	1742.2	1742.2	1742.2	1750.6	1767.3	1774.1	1774.1
22.5°	1560.0	1663.7	1697.1	1700.4	1710.4	1710.4	1713.8	1725.5	1740.6	1742.2	1742.2
25°	1493.1	1626.8	1655.3	1665.4	1675.4	1680.4	1685.4	1692.0	1697.1	1695.4	1697.1
27.5°	1422.9	1580.0	1616.9	1623.5	1636.9	1642.0	1648.6	1650.3	1651.9	1657.0	1653.6
30°	1344.3	1514.8	1570.0	1576.7	1598.5	1601.7	1595.1	1598.5	1606.8	1610.1	1613.5
32.5°	1255.6	1417.9	1521.5	1536.5	1556.7	1546.6	1544.9	1550.0	1563.3	1563.3	1566.7
35°	1135.3	1342.6	1476.4	1489.8	1504.8	1493.1	1499.8	1501.5	1509.9	1514.8	1513.2
37.5°	1003.2	1277.4	1429.5	1439.6	1451.3	1436.3	1446.3	1451.3	1458.0	1454.6	1454.6
40°	886.1	1175.4	1374.4	1381.1	1391.1	1379.4	1389.4	1392.8	1396.1	1392.8	1391.1
42.5°	799.2	1063.4	1315.9	1324.2	1317.5	1325.9	1329.3	1336.0	1330.9	1324.2	1324.2
45°	732.3	1033.3	1252.3	1262.4	1252.3	1265.7	1270.8	1270.8	1255.6	1252.3	1250.7
47.5°	710.6	973.1	1188.8	1188.8	1183.8	1200.5	1208.8	1197.2	1182.1	1177.1	1177.1
50°	708.9	906.2	1101.8	1095.2	1118.6	1138.7	1130.3	1118.6	1106.9	1088.5	1088.5
52.5°	643.7	824.3	989.9	1014.9	1051.7	1063.4	1050.0	1038.3	1018.2	1009.9	1003.2
55°	596.9	739.0	887.8	938.0	976.4	991.5	966.5	954.7	924.7	919.6	916.3
57.5°	586.9	615.3	794.3	857.8	904.5	902.9	887.8	866.1	841.0	836.0	834.4
60°	538.4	444.8	693.9	769.2	817.6	812.6	799.2	779.1	755.7	752.4	749.1
62.5°	488.3	322.7	580.2	665.4	734.0	732.3	720.6	690.5	673.8	665.4	658.8
65°	414.7	270.9	413.0	553.5	652.1	655.4	630.3	608.6	590.2	580.2	578.5
67.5°	316.0	220.7	279.2	461.5	573.5	570.2	538.4	528.4	505.0	499.9	489.9
70°	234.1	147.1	193.9	374.6	496.6	488.3	463.2	451.4	429.7	418.0	411.3
72.5°	193.9	118.8	142.1	291.0	418.0	407.9	386.2	372.9	354.5	344.4	337.7
75°	157.2	125.4	108.7	215.7	339.4	332.8	312.7	299.3	284.2	270.9	272.5
77.5°	115.4	117.1	86.9	158.9	269.2	259.2	247.5	230.7	224.1	210.6	210.6
80°	86.9	92.0	65.2	108.7	193.9	193.9	184.0	172.2	160.6	153.8	153.8
82.5°	58.5	58.5	48.5	68.6	132.1	127.1	120.3	117.1	110.4	107.0	107.0
85°	26.8	33.4	30.1	41.8	71.9	75.3	75.3	71.9	70.2	66.9	68.6
87.5°	8.4	15.0	18.4	23.4	36.8	38.4	40.1	40.1	40.1	41.8	41.8
90°	4.1	7.4	10.7	11.5	18.1	26.9	31.2	27.8	20.8	15.6	15.6
92.5°	16.4	44.4	72.3	79.3	111.5	154.4	175.9	154.1	110.7	78.1	75.0
95°	39.4	90.6	141.8	154.5	274.4	434.1	514.1	458.7	348.1	265.1	255.7
97.5°	68.2	113.3	158.5	169.7	369.6	636.1	769.3	734.3	664.3	611.9	594.0
100°	90.4	131.3	172.2	182.5	404.3	700.0	847.8	850.4	855.4	859.3	837.9
102.5°	109.3	147.5	185.6	195.2	420.2	720.1	870.0	914.6	1003.7	1070.5	1052.2
105°	141.4	173.7	206.0	214.1	432.0	722.3	867.6	967.4	1167.2	1317.1	1307.3
107.5°	174.3	204.4	234.6	242.1	434.1	690.1	818.2	957.6	1236.3	1445.3	1447.7
110°	196.4	223.7	250.9	257.7	430.8	661.7	777.1	932.9	1244.5	1478.1	1488.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	218.2	244.1	270.0	276.5	431.0	636.8	739.7	899.2	1218.0	1457.2	1472.9
115°	251.1	275.0	298.9	304.9	434.9	608.3	695.0	848.6	1155.8	1386.2	1407.9
117.5°	283.6	305.3	327.0	332.5	443.0	590.4	664.1	802.8	1080.0	1288.0	1312.1
120°	302.4	322.9	343.3	348.5	449.5	584.4	651.8	778.4	1031.8	1221.8	1245.3
122.5°	321.0	341.7	362.3	367.4	459.0	581.2	642.3	756.3	984.4	1155.6	1178.7
125°	349.4	368.1	386.9	391.6	471.8	578.6	632.0	728.9	922.7	1068.0	1089.4
127.5°	372.3	391.2	410.3	415.1	484.5	577.1	623.4	706.6	873.0	997.8	1015.8
130°	384.6	405.1	425.5	430.7	493.8	578.1	620.2	694.3	842.4	953.4	970.0
132.5°	397.4	417.8	438.3	443.4	501.3	578.6	617.2	683.5	816.1	915.6	930.5
135°	416.3	434.9	453.6	458.2	509.6	578.1	612.4	667.9	778.8	862.1	875.0
137.5°	435.6	454.1	472.5	477.1	521.9	581.6	611.5	658.4	752.3	822.7	833.2
140°	451.6	468.6	485.6	489.9	529.5	582.2	608.6	649.1	730.2	791.1	800.9
142.5°	464.0	479.7	495.4	499.3	535.8	584.3	608.6	644.2	715.4	768.9	777.4
145°	482.8	496.6	510.2	513.7	544.0	584.4	604.6	633.7	691.9	735.6	742.0
147.5°	501.8	515.1	528.4	531.7	556.0	588.4	604.6	627.5	673.3	707.7	713.0
150°	514.1	526.1	538.2	541.2	562.4	590.5	604.6	623.9	662.6	691.6	695.8
152.5°	526.8	535.9	545.1	547.4	566.4	591.8	604.6	621.1	654.1	678.9	682.1
155°	545.8	552.5	559.3	561.0	575.5	594.9	604.6	617.7	644.0	663.6	665.8
157.5°	559.7	566.3	572.8	574.5	584.5	597.8	604.6	614.7	635.2	650.5	652.0
160°	569.2	574.3	579.4	580.6	588.7	599.2	604.6	613.4	630.8	644.0	644.9
162.5°	578.6	582.4	586.3	587.3	593.0	600.7	604.6	612.0	626.7	637.8	638.5
165°	588.8	592.3	595.8	596.7	599.3	602.8	604.6	609.9	620.5	628.4	629.3
167.5°	598.3	600.0	601.7	602.1	604.3	607.1	608.6	612.1	619.0	624.2	624.6
170°	604.6	606.1	607.8	608.2	608.3	608.5	608.6	612.1	619.0	624.2	624.2
172.5°	607.8	608.2	608.5	608.6	608.6	608.6	608.6	611.4	616.8	621.0	620.7
175°	612.4	612.4	612.4	612.4	611.1	609.4	608.6	610.4	613.8	616.4	616.4
177.5°	612.4	612.4	612.4	612.4	611.4	610.1	609.4	610.8	613.5	615.6	615.2
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1812.5	1807.4	1812.5	1809.1	1810.8	1805.8	1790.8	1785.7	1790.8	1795.8	1795.8
5°	1834.2	1830.9	1834.2	1834.2	1832.5	1829.2	1812.5	1809.1	1812.5	1814.2	1810.8
7.5°	1840.8	1835.9	1840.8	1837.6	1837.6	1834.2	1817.5	1814.2	1815.8	1820.8	1815.8
10°	1840.8	1835.9	1840.8	1839.3	1837.6	1834.2	1817.5	1810.8	1810.8	1815.8	1810.8
12.5°	1832.5	1829.2	1832.5	1829.2	1829.2	1825.8	1809.1	1802.4	1804.1	1805.8	1799.0
15°	1819.1	1814.2	1819.1	1815.8	1817.5	1812.5	1794.1	1787.4	1787.4	1790.8	1779.0
17.5°	1799.0	1792.4	1799.0	1797.4	1795.8	1792.4	1775.6	1769.0	1767.3	1769.0	1760.6
20°	1775.6	1770.7	1775.6	1774.1	1774.1	1767.3	1750.6	1742.2	1742.2	1742.2	1733.8
22.5°	1738.9	1733.8	1738.9	1742.2	1742.2	1740.6	1725.5	1713.8	1710.4	1710.4	1700.4
25°	1697.1	1692.0	1697.1	1697.1	1695.4	1697.1	1692.0	1685.4	1680.4	1675.4	1665.4
27.5°	1657.0	1653.6	1657.0	1653.6	1657.0	1651.9	1650.3	1648.6	1642.0	1636.9	1623.5
30°	1616.9	1613.5	1616.9	1613.5	1610.1	1606.8	1598.5	1595.1	1601.7	1598.5	1576.7
32.5°	1566.7	1563.3	1566.7	1566.7	1563.3	1563.3	1550.0	1544.9	1546.6	1556.7	1536.5
35°	1514.8	1509.9	1514.8	1513.2	1514.8	1509.9	1501.5	1499.8	1493.1	1504.8	1489.8
37.5°	1454.6	1449.6	1454.6	1454.6	1454.6	1458.0	1451.3	1446.3	1436.3	1451.3	1439.6
40°	1392.8	1386.1	1392.8	1391.1	1392.8	1396.1	1392.8	1389.4	1379.4	1391.1	1381.1
42.5°	1322.5	1320.9	1322.5	1324.2	1324.2	1330.9	1336.0	1329.3	1325.9	1317.5	1324.2
45°	1247.4	1244.0	1247.4	1250.7	1252.3	1255.6	1270.8	1270.8	1265.7	1252.3	1262.4
47.5°	1167.0	1158.7	1167.0	1177.1	1177.1	1182.1	1197.2	1208.8	1200.5	1183.8	1188.8
50°	1081.8	1083.4	1081.8	1088.5	1088.5	1106.9	1118.6	1130.3	1138.7	1118.6	1095.2
52.5°	998.2	996.5	998.2	1003.2	1009.9	1018.2	1038.3	1050.0	1063.4	1051.7	1014.9
55°	914.6	918.0	914.6	916.3	919.6	924.7	954.7	966.5	991.5	976.4	938.0
57.5°	831.0	826.0	831.0	834.4	836.0	841.0	866.1	887.8	902.9	904.5	857.8
60°	734.0	727.4	734.0	749.1	752.4	755.7	779.1	799.2	812.6	817.6	769.2
62.5°	648.7	637.1	648.7	658.8	665.4	673.8	690.5	720.6	732.3	734.0	665.4
65°	558.4	553.5	558.4	578.5	580.2	590.2	608.6	630.3	655.4	652.1	553.5
67.5°	476.5	476.5	476.5	489.9	499.9	505.0	528.4	538.4	570.2	573.5	461.5
70°	401.3	399.6	401.3	411.3	418.0	429.7	451.4	463.2	488.3	496.6	374.6
72.5°	329.4	327.7	329.4	337.7	344.4	354.5	372.9	386.2	407.9	418.0	291.0
75°	265.9	262.5	265.9	272.5	270.9	284.2	299.3	312.7	332.8	339.4	215.7
77.5°	204.0	204.0	204.0	210.6	210.6	224.1	230.7	247.5	259.2	269.2	158.9
80°	152.2	150.5	152.2	153.8	153.8	160.6	172.2	184.0	193.9	193.9	108.7
82.5°	107.0	103.6	107.0	107.0	107.0	110.4	117.1	120.3	127.1	132.1	68.6
85°	66.9	66.9	66.9	68.6	66.9	70.2	71.9	75.3	75.3	71.9	41.8
87.5°	43.5	41.8	43.5	41.8	41.8	40.1	40.1	40.1	38.4	36.8	23.4
90°	15.6	15.6	15.6	15.6	15.6	20.8	27.8	31.2	26.9	18.1	11.5
92.5°	62.5	50.1	62.5	75.0	78.1	110.7	154.1	175.9	154.4	111.5	79.3
95°	218.1	180.4	218.1	255.7	265.1	348.1	458.7	514.1	434.1	274.4	154.5
97.5°	522.4	450.8	522.4	594.0	611.9	664.3	734.3	769.3	636.1	369.6	169.7
100°	752.7	667.4	752.7	837.9	859.3	855.4	850.4	847.8	700.0	404.3	182.5
102.5°	979.2	906.2	979.2	1052.2	1070.5	1003.7	914.6	870.0	720.1	420.2	195.2
105°	1268.0	1228.8	1268.0	1307.3	1317.1	1167.2	967.4	867.6	722.3	432.0	214.1
107.5°	1457.2	1466.7	1457.2	1447.7	1445.3	1236.3	957.6	818.2	690.1	434.1	242.1
110°	1529.3	1570.2	1529.3	1488.4	1478.1	1244.5	932.9	777.1	661.7	430.8	257.7



TEST NUMBER: P935318

CATALOG NUMBER: SQ4-FA-100U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1535.7	1598.6	1535.7	1472.9	1457.2	1218.0	899.2	739.7	636.8	431.0	276.5
115°	1495.0	1582.2	1495.0	1407.9	1386.2	1155.8	848.6	695.0	608.3	434.9	304.9
117.5°	1408.7	1505.3	1408.7	1312.1	1288.0	1080.0	802.8	664.1	590.4	443.0	332.5
120°	1339.1	1433.0	1339.1	1245.3	1221.8	1031.8	778.4	651.8	584.4	449.5	348.5
122.5°	1271.4	1363.9	1271.4	1178.7	1155.6	984.4	756.3	642.3	581.2	459.0	367.4
125°	1174.6	1260.0	1174.6	1089.4	1068.0	922.7	728.9	632.0	578.6	471.8	391.6
127.5°	1087.8	1159.7	1087.8	1015.8	997.8	873.0	706.6	623.4	577.1	484.5	415.1
130°	1036.5	1103.0	1036.5	970.0	953.4	842.4	694.3	620.2	578.1	493.8	430.7
132.5°	990.0	1049.6	990.0	930.5	915.6	816.1	683.5	617.2	578.6	501.3	443.4
135°	926.2	977.6	926.2	875.0	862.1	778.8	667.9	612.4	578.1	509.6	458.2
137.5°	875.3	917.3	875.3	833.2	822.7	752.3	658.4	611.5	581.6	521.9	477.1
140°	840.2	879.4	840.2	800.9	791.1	730.2	649.1	608.6	582.2	529.5	489.9
142.5°	811.1	844.9	811.1	777.4	768.9	715.4	644.2	608.6	584.3	535.8	499.3
145°	767.6	793.2	767.6	742.0	735.6	691.9	633.7	604.6	584.4	544.0	513.7
147.5°	734.2	755.3	734.2	713.0	707.7	673.3	627.5	604.6	588.4	556.0	531.7
150°	713.0	730.2	713.0	695.8	691.6	662.6	623.9	604.6	590.5	562.4	541.2
152.5°	695.1	708.1	695.1	682.1	678.9	654.1	621.1	604.6	591.8	566.4	547.4
155°	674.4	683.0	674.4	665.8	663.6	644.0	617.7	604.6	594.9	575.5	561.0
157.5°	658.1	664.1	658.1	652.0	650.5	635.2	614.7	604.6	597.8	584.5	574.5
160°	648.3	651.8	648.3	644.9	644.0	630.8	613.4	604.6	599.2	588.7	580.6
162.5°	641.9	645.2	641.9	638.5	637.8	626.7	612.0	604.6	600.7	593.0	587.3
165°	632.7	636.2	632.7	629.3	628.4	620.5	609.9	604.6	602.8	599.3	596.7
167.5°	626.0	627.5	626.0	624.6	624.2	619.0	612.1	608.6	607.1	604.3	602.1
170°	624.2	624.2	624.2	624.2	624.2	619.0	612.1	608.6	608.5	608.3	608.2
172.5°	619.4	618.1	619.4	620.7	621.0	616.8	611.4	608.6	608.6	608.6	608.6
175°	616.4	616.4	616.4	616.4	616.4	613.8	610.4	608.6	609.4	611.1	612.4
177.5°	613.8	612.4	613.8	615.2	615.6	613.5	610.8	609.4	610.1	611.4	612.4
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935318

CATALOG NUMBER: SQ4-FA-100U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1792.4	1782.4	1782.4	1765.7	1758.9	1753.9	1745.6	1720.5	1713.8	1707.2	1717.1
5°	1807.4	1789.1	1775.6	1745.6	1720.5	1710.4	1678.7	1618.5	1578.4	1548.3	1531.6
7.5°	1810.8	1787.4	1762.3	1715.5	1655.3	1628.5	1531.6	1421.2	1391.1	1364.3	1347.6
10°	1807.4	1780.7	1745.6	1675.4	1533.3	1486.4	1389.4	1317.5	1299.1	1294.2	1299.1
12.5°	1795.8	1770.7	1722.2	1605.1	1406.1	1374.4	1317.5	1275.7	1272.4	1280.7	1325.9
15°	1775.6	1752.3	1695.4	1511.5	1336.0	1312.6	1272.4	1257.3	1275.7	1334.3	1469.7
17.5°	1755.6	1728.9	1658.7	1419.6	1282.4	1265.7	1237.3	1267.4	1371.0	1449.6	1494.7
20°	1728.9	1697.1	1616.9	1352.7	1244.0	1229.0	1215.5	1351.0	1429.5	1458.0	1483.1
22.5°	1697.1	1663.7	1560.0	1305.8	1203.9	1192.1	1200.5	1397.8	1429.5	1449.6	1471.3
25°	1655.3	1626.8	1493.1	1269.1	1172.1	1158.7	1190.4	1392.8	1411.2	1416.2	1459.7
27.5°	1616.9	1580.0	1422.9	1235.6	1133.6	1128.6	1198.8	1371.0	1384.4	1389.4	1436.3
30°	1570.0	1514.8	1344.3	1200.5	1093.5	1091.8	1200.5	1344.3	1340.9	1354.4	1401.2
32.5°	1521.5	1417.9	1255.6	1157.0	1055.1	1053.4	1188.8	1304.2	1300.8	1319.2	1354.4
35°	1476.4	1342.6	1135.3	1106.9	1006.6	1008.3	1160.4	1257.3	1259.0	1275.7	1297.4
37.5°	1429.5	1277.4	1003.2	1051.7	959.7	959.7	1121.9	1213.9	1210.5	1215.5	1245.7
40°	1374.4	1175.4	886.1	979.8	916.3	911.2	1075.1	1167.0	1155.4	1153.7	1195.5
42.5°	1315.9	1063.4	799.2	884.5	866.1	859.5	1018.2	1110.2	1088.5	1093.5	1147.0
45°	1252.3	1033.3	732.3	747.4	814.3	809.3	956.4	1045.0	1030.0	1043.3	1098.6
47.5°	1188.8	973.1	710.6	620.4	759.1	757.4	887.8	981.5	973.1	986.5	1045.0
50°	1101.8	906.2	708.9	531.7	697.2	704.0	805.9	919.6	919.6	931.3	993.1
52.5°	989.9	824.3	643.7	481.6	625.3	645.4	734.0	866.1	869.4	881.2	936.3
55°	887.8	739.0	596.9	443.1	540.0	583.5	663.8	811.0	817.6	829.3	879.5
57.5°	794.3	615.3	586.9	398.0	461.5	503.3	601.9	757.4	760.8	770.8	819.2
60°	693.9	444.8	538.4	349.5	392.9	424.6	545.1	693.9	705.6	712.2	754.0
62.5°	580.2	322.7	488.3	316.0	359.4	366.2	498.2	633.7	648.7	653.8	678.9
65°	413.0	270.9	414.7	287.6	324.4	326.0	448.1	571.9	585.2	593.6	612.0
67.5°	279.2	220.7	316.0	260.8	297.6	299.3	399.6	499.9	518.3	525.0	536.7
70°	193.9	147.1	234.1	232.4	267.6	270.9	347.8	434.7	451.4	456.5	463.2
72.5°	142.1	118.8	193.9	209.0	235.7	239.1	294.2	361.1	377.9	382.8	386.2
75°	108.7	125.4	157.2	182.3	200.7	202.3	240.8	294.2	306.0	309.3	311.0
77.5°	86.9	117.1	115.4	147.1	163.8	160.6	188.9	227.4	237.4	237.4	237.4
80°	65.2	92.0	86.9	105.3	120.3	117.1	135.5	162.2	165.5	168.8	167.2
82.5°	48.5	58.5	58.5	66.9	80.2	76.9	90.3	105.3	105.3	105.3	108.7
85°	30.1	33.4	26.8	35.1	45.2	43.5	50.2	56.8	58.5	58.5	55.1
87.5°	18.4	15.0	8.4	13.3	20.1	20.1	23.4	25.1	23.4	23.4	23.4
90°	10.7	7.4	4.1	7.4	10.7	11.5	18.1	26.9	31.2	27.8	20.8
92.5°	72.3	44.4	16.4	44.4	72.3	79.3	111.5	154.4	175.9	154.1	110.7
95°	141.8	90.6	39.4	90.6	141.8	154.5	274.4	434.1	514.1	458.7	348.1
97.5°	158.5	113.3	68.2	113.3	158.5	169.7	369.6	636.1	769.3	734.3	664.3
100°	172.2	131.3	90.4	131.3	172.2	182.5	404.3	700.0	847.8	850.4	855.4
102.5°	185.6	147.5	109.3	147.5	185.6	195.2	420.2	720.1	870.0	914.6	1003.7
105°	206.0	173.7	141.4	173.7	206.0	214.1	432.0	722.3	867.6	967.4	1167.2
107.5°	234.6	204.4	174.3	204.4	234.6	242.1	434.1	690.1	818.2	957.6	1236.3
110°	250.9	223.7	196.4	223.7	250.9	257.7	430.8	661.7	777.1	932.9	1244.5



TEST NUMBER: P935318

CATALOG NUMBER: SQ4-FA-100U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	270.0	244.1	218.2	244.1	270.0	276.5	431.0	636.8	739.7	899.2	1218.0
115°	298.9	275.0	251.1	275.0	298.9	304.9	434.9	608.3	695.0	848.6	1155.8
117.5°	327.0	305.3	283.6	305.3	327.0	332.5	443.0	590.4	664.1	802.8	1080.0
120°	343.3	322.9	302.4	322.9	343.3	348.5	449.5	584.4	651.8	778.4	1031.8
122.5°	362.3	341.7	321.0	341.7	362.3	367.4	459.0	581.2	642.3	756.3	984.4
125°	386.9	368.1	349.4	368.1	386.9	391.6	471.8	578.6	632.0	728.9	922.7
127.5°	410.3	391.2	372.3	391.2	410.3	415.1	484.5	577.1	623.4	706.6	873.0
130°	425.5	405.1	384.6	405.1	425.5	430.7	493.8	578.1	620.2	694.3	842.4
132.5°	438.3	417.8	397.4	417.8	438.3	443.4	501.3	578.6	617.2	683.5	816.1
135°	453.6	434.9	416.3	434.9	453.6	458.2	509.6	578.1	612.4	667.9	778.8
137.5°	472.5	454.1	435.6	454.1	472.5	477.1	521.9	581.6	611.5	658.4	752.3
140°	485.6	468.6	451.6	468.6	485.6	489.9	529.5	582.2	608.6	649.1	730.2
142.5°	495.4	479.7	464.0	479.7	495.4	499.3	535.8	584.3	608.6	644.2	715.4
145°	510.2	496.6	482.8	496.6	510.2	513.7	544.0	584.4	604.6	633.7	691.9
147.5°	528.4	515.1	501.8	515.1	528.4	531.7	556.0	588.4	604.6	627.5	673.3
150°	538.2	526.1	514.1	526.1	538.2	541.2	562.4	590.5	604.6	623.9	662.6
152.5°	545.1	535.9	526.8	535.9	545.1	547.4	566.4	591.8	604.6	621.1	654.1
155°	559.3	552.5	545.8	552.5	559.3	561.0	575.5	594.9	604.6	617.7	644.0
157.5°	572.8	566.3	559.7	566.3	572.8	574.5	584.5	597.8	604.6	614.7	635.2
160°	579.4	574.3	569.2	574.3	579.4	580.6	588.7	599.2	604.6	613.4	630.8
162.5°	586.3	582.4	578.6	582.4	586.3	587.3	593.0	600.7	604.6	612.0	626.7
165°	595.8	592.3	588.8	592.3	595.8	596.7	599.3	602.8	604.6	609.9	620.5
167.5°	601.7	600.0	598.3	600.0	601.7	602.1	604.3	607.1	608.6	612.1	619.0
170°	607.8	606.1	604.6	606.1	607.8	608.2	608.3	608.5	608.6	612.1	619.0
172.5°	608.5	608.2	607.8	608.2	608.5	608.6	608.6	608.6	608.6	611.4	616.8
175°	612.4	612.4	612.4	612.4	612.4	612.4	611.1	609.4	608.6	610.4	613.8
177.5°	612.4	612.4	612.4	612.4	612.4	612.4	611.4	610.1	609.4	610.8	613.5
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935318
 CATALOG NUMBER: SQ4-FA-100U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1705.5	1700.4	1707.2	1688.7	1707.2	1700.4	1705.5	1717.1	1707.2	1713.8	1720.5
5°	1496.4	1488.1	1461.4	1439.6	1461.4	1488.1	1496.4	1531.6	1548.3	1578.4	1618.5
7.5°	1337.7	1330.9	1324.2	1310.9	1324.2	1330.9	1337.7	1347.6	1364.3	1391.1	1421.2
10°	1302.5	1304.2	1314.2	1312.6	1314.2	1304.2	1302.5	1299.1	1294.2	1299.1	1317.5
12.5°	1392.8	1407.8	1463.0	1459.7	1463.0	1407.8	1392.8	1325.9	1280.7	1272.4	1275.7
15°	1496.4	1501.5	1513.2	1514.8	1513.2	1501.5	1496.4	1469.7	1334.3	1275.7	1257.3
17.5°	1506.5	1508.2	1516.5	1516.5	1516.5	1508.2	1506.5	1494.7	1449.6	1371.0	1267.4
20°	1498.1	1501.5	1518.2	1521.5	1518.2	1501.5	1498.1	1483.1	1458.0	1429.5	1351.0
22.5°	1494.7	1501.5	1514.8	1513.2	1514.8	1501.5	1494.7	1471.3	1449.6	1429.5	1397.8
25°	1478.0	1478.0	1479.7	1481.4	1479.7	1478.0	1478.0	1459.7	1416.2	1411.2	1392.8
27.5°	1443.0	1446.3	1456.3	1454.6	1456.3	1446.3	1443.0	1436.3	1389.4	1384.4	1371.0
30°	1411.2	1407.8	1399.5	1392.8	1399.5	1407.8	1411.2	1401.2	1354.4	1340.9	1344.3
32.5°	1357.7	1349.3	1340.9	1336.0	1340.9	1349.3	1357.7	1354.4	1319.2	1300.8	1304.2
35°	1294.2	1295.8	1294.2	1289.1	1294.2	1295.8	1294.2	1297.4	1275.7	1259.0	1257.3
37.5°	1249.0	1252.3	1250.7	1244.0	1250.7	1252.3	1249.0	1245.7	1215.5	1210.5	1213.9
40°	1202.2	1203.9	1202.2	1197.2	1202.2	1203.9	1202.2	1195.5	1153.7	1155.4	1167.0
42.5°	1157.0	1155.4	1150.3	1147.0	1150.3	1155.4	1157.0	1147.0	1093.5	1088.5	1110.2
45°	1105.2	1106.9	1096.9	1091.8	1096.9	1106.9	1105.2	1098.6	1043.3	1030.0	1045.0
47.5°	1053.4	1053.4	1045.0	1040.0	1045.0	1053.4	1053.4	1045.0	986.5	973.1	981.5
50°	998.2	996.5	984.8	983.2	984.8	996.5	998.2	993.1	931.3	919.6	919.6
52.5°	934.6	934.6	936.3	939.7	936.3	934.6	934.6	936.3	881.2	869.4	866.1
55°	879.5	881.2	892.9	896.2	892.9	881.2	879.5	879.5	829.3	817.6	811.0
57.5°	822.6	822.6	831.0	831.0	831.0	822.6	822.6	819.2	770.8	760.8	757.4
60°	757.4	760.8	767.5	765.8	767.5	760.8	757.4	754.0	712.2	705.6	693.9
62.5°	688.8	692.2	693.9	690.5	693.9	692.2	688.8	678.9	653.8	648.7	633.7
65°	617.0	620.4	621.9	618.7	621.9	620.4	617.0	612.0	593.6	585.2	571.9
67.5°	543.4	541.7	540.0	546.8	540.0	541.7	543.4	536.7	525.0	518.3	499.9
70°	468.1	468.1	466.5	469.8	466.5	468.1	468.1	463.2	456.5	451.4	434.7
72.5°	387.9	386.2	392.9	387.9	392.9	386.2	387.9	386.2	382.8	377.9	361.1
75°	309.3	312.7	309.3	314.4	309.3	312.7	309.3	311.0	309.3	306.0	294.2
77.5°	235.7	239.1	235.7	235.7	235.7	239.1	235.7	237.4	237.4	237.4	227.4
80°	167.2	165.5	165.5	163.8	165.5	165.5	167.2	167.2	168.8	165.5	162.2
82.5°	107.0	105.3	105.3	108.7	105.3	105.3	107.0	108.7	105.3	105.3	105.3
85°	58.5	60.2	56.8	56.8	56.8	60.2	58.5	55.1	58.5	58.5	56.8
87.5°	21.7	20.1	20.1	20.1	20.1	20.1	21.7	23.4	23.4	23.4	25.1
90°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	20.8	27.8	31.2	26.9
92.5°	78.1	75.0	62.5	50.1	62.5	75.0	78.1	110.7	154.1	175.9	154.4
95°	265.1	255.7	218.1	180.4	218.1	255.7	265.1	348.1	458.7	514.1	434.1
97.5°	611.9	594.0	522.4	450.8	522.4	594.0	611.9	664.3	734.3	769.3	636.1
100°	859.3	837.9	752.7	667.4	752.7	837.9	859.3	855.4	850.4	847.8	700.0
102.5°	1070.5	1052.2	979.2	906.2	979.2	1052.2	1070.5	1003.7	914.6	870.0	720.1
105°	1317.1	1307.3	1268.0	1228.8	1268.0	1307.3	1317.1	1167.2	967.4	867.6	722.3
107.5°	1445.3	1447.7	1457.2	1466.7	1457.2	1447.7	1445.3	1236.3	957.6	818.2	690.1
110°	1478.1	1488.4	1529.3	1570.2	1529.3	1488.4	1478.1	1244.5	932.9	777.1	661.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1457.2	1472.9	1535.7	1598.6	1535.7	1472.9	1457.2	1218.0	899.2	739.7	636.8
115°	1386.2	1407.9	1495.0	1582.2	1495.0	1407.9	1386.2	1155.8	848.6	695.0	608.3
117.5°	1288.0	1312.1	1408.7	1505.3	1408.7	1312.1	1288.0	1080.0	802.8	664.1	590.4
120°	1221.8	1245.3	1339.1	1433.0	1339.1	1245.3	1221.8	1031.8	778.4	651.8	584.4
122.5°	1155.6	1178.7	1271.4	1363.9	1271.4	1178.7	1155.6	984.4	756.3	642.3	581.2
125°	1068.0	1089.4	1174.6	1260.0	1174.6	1089.4	1068.0	922.7	728.9	632.0	578.6
127.5°	997.8	1015.8	1087.8	1159.7	1087.8	1015.8	997.8	873.0	706.6	623.4	577.1
130°	953.4	970.0	1036.5	1103.0	1036.5	970.0	953.4	842.4	694.3	620.2	578.1
132.5°	915.6	930.5	990.0	1049.6	990.0	930.5	915.6	816.1	683.5	617.2	578.6
135°	862.1	875.0	926.2	977.6	926.2	875.0	862.1	778.8	667.9	612.4	578.1
137.5°	822.7	833.2	875.3	917.3	875.3	833.2	822.7	752.3	658.4	611.5	581.6
140°	791.1	800.9	840.2	879.4	840.2	800.9	791.1	730.2	649.1	608.6	582.2
142.5°	768.9	777.4	811.1	844.9	811.1	777.4	768.9	715.4	644.2	608.6	584.3
145°	735.6	742.0	767.6	793.2	767.6	742.0	735.6	691.9	633.7	604.6	584.4
147.5°	707.7	713.0	734.2	755.3	734.2	713.0	707.7	673.3	627.5	604.6	588.4
150°	691.6	695.8	713.0	730.2	713.0	695.8	691.6	662.6	623.9	604.6	590.5
152.5°	678.9	682.1	695.1	708.1	695.1	682.1	678.9	654.1	621.1	604.6	591.8
155°	663.6	665.8	674.4	683.0	674.4	665.8	663.6	644.0	617.7	604.6	594.9
157.5°	650.5	652.0	658.1	664.1	658.1	652.0	650.5	635.2	614.7	604.6	597.8
160°	644.0	644.9	648.3	651.8	648.3	644.9	644.0	630.8	613.4	604.6	599.2
162.5°	637.8	638.5	641.9	645.2	641.9	638.5	637.8	626.7	612.0	604.6	600.7
165°	628.4	629.3	632.7	636.2	632.7	629.3	628.4	620.5	609.9	604.6	602.8
167.5°	624.2	624.6	626.0	627.5	626.0	624.6	624.2	619.0	612.1	608.6	607.1
170°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	619.0	612.1	608.6	608.5
172.5°	621.0	620.7	619.4	618.1	619.4	620.7	621.0	616.8	611.4	608.6	608.6
175°	616.4	616.4	616.4	616.4	616.4	616.4	616.4	613.8	610.4	608.6	609.4
177.5°	615.6	615.2	613.8	612.4	613.8	615.2	615.6	613.5	610.8	609.4	610.1
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1745.6	1753.9	1758.9	1765.7	1782.4
5°	1678.7	1710.4	1720.5	1745.6	1775.6
7.5°	1531.6	1628.5	1655.3	1715.5	1762.3
10°	1389.4	1486.4	1533.3	1675.4	1745.6
12.5°	1317.5	1374.4	1406.1	1605.1	1722.2
15°	1272.4	1312.6	1336.0	1511.5	1695.4
17.5°	1237.3	1265.7	1282.4	1419.6	1658.7
20°	1215.5	1229.0	1244.0	1352.7	1616.9
22.5°	1200.5	1192.1	1203.9	1305.8	1560.0
25°	1190.4	1158.7	1172.1	1269.1	1493.1
27.5°	1198.8	1128.6	1133.6	1235.6	1422.9
30°	1200.5	1091.8	1093.5	1200.5	1344.3
32.5°	1188.8	1053.4	1055.1	1157.0	1255.6
35°	1160.4	1008.3	1006.6	1106.9	1135.3
37.5°	1121.9	959.7	959.7	1051.7	1003.2
40°	1075.1	911.2	916.3	979.8	886.1
42.5°	1018.2	859.5	866.1	884.5	799.2
45°	956.4	809.3	814.3	747.4	732.3
47.5°	887.8	757.4	759.1	620.4	710.6
50°	805.9	704.0	697.2	531.7	708.9
52.5°	734.0	645.4	625.3	481.6	643.7
55°	663.8	583.5	540.0	443.1	596.9
57.5°	601.9	503.3	461.5	398.0	586.9
60°	545.1	424.6	392.9	349.5	538.4
62.5°	498.2	366.2	359.4	316.0	488.3
65°	448.1	326.0	324.4	287.6	414.7
67.5°	399.6	299.3	297.6	260.8	316.0
70°	347.8	270.9	267.6	232.4	234.1
72.5°	294.2	239.1	235.7	209.0	193.9
75°	240.8	202.3	200.7	182.3	157.2
77.5°	188.9	160.6	163.8	147.1	115.4
80°	135.5	117.1	120.3	105.3	86.9
82.5°	90.3	76.9	80.2	66.9	58.5
85°	50.2	43.5	45.2	35.1	26.8
87.5°	23.4	20.1	20.1	13.3	8.4
90°	18.1	11.5	10.7	7.4	4.1
92.5°	111.5	79.3	72.3	44.4	16.4
95°	274.4	154.5	141.8	90.6	39.4
97.5°	369.6	169.7	158.5	113.3	68.2
100°	404.3	182.5	172.2	131.3	90.4
102.5°	420.2	195.2	185.6	147.5	109.3
105°	432.0	214.1	206.0	173.7	141.4
107.5°	434.1	242.1	234.6	204.4	174.3
110°	430.8	257.7	250.9	223.7	196.4



TEST NUMBER: P935318

CATALOG NUMBER: SQ4-FA-100U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	431.0	276.5	270.0	244.1	218.2
115°	434.9	304.9	298.9	275.0	251.1
117.5°	443.0	332.5	327.0	305.3	283.6
120°	449.5	348.5	343.3	322.9	302.4
122.5°	459.0	367.4	362.3	341.7	321.0
125°	471.8	391.6	386.9	368.1	349.4
127.5°	484.5	415.1	410.3	391.2	372.3
130°	493.8	430.7	425.5	405.1	384.6
132.5°	501.3	443.4	438.3	417.8	397.4
135°	509.6	458.2	453.6	434.9	416.3
137.5°	521.9	477.1	472.5	454.1	435.6
140°	529.5	489.9	485.6	468.6	451.6
142.5°	535.8	499.3	495.4	479.7	464.0
145°	544.0	513.7	510.2	496.6	482.8
147.5°	556.0	531.7	528.4	515.1	501.8
150°	562.4	541.2	538.2	526.1	514.1
152.5°	566.4	547.4	545.1	535.9	526.8
155°	575.5	561.0	559.3	552.5	545.8
157.5°	584.5	574.5	572.8	566.3	559.7
160°	588.7	580.6	579.4	574.3	569.2
162.5°	593.0	587.3	586.3	582.4	578.6
165°	599.3	596.7	595.8	592.3	588.8
167.5°	604.3	602.1	601.7	600.0	598.3
170°	608.3	608.2	607.8	606.1	604.6
172.5°	608.6	608.6	608.5	608.2	607.8
175°	611.1	612.4	612.4	612.4	612.4
177.5°	611.4	612.4	612.4	612.4	612.4
180°	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935318
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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	14.84	15.73	15.76	16.68	17.90	17.64	18.53	18.56	19.47	20.69
	3H	15.32	16.12	16.26	17.07	18.32	18.97	19.78	19.91	20.73	21.97
	4H	15.51	16.27	16.46	17.23	18.48	19.41	20.17	20.37	21.13	22.38
	6H	15.63	16.33	16.60	17.29	18.56	19.69	20.39	20.66	21.35	22.62
	8H	15.63	16.30	16.60	17.28	18.54	19.76	20.43	20.73	21.41	22.67
	12H	15.61	16.24	16.58	17.21	18.50	19.80	20.43	20.77	21.41	22.69
4H	2H	15.87	16.63	16.83	17.58	18.84	18.05	18.81	19.01	19.77	21.02
	3H	16.90	17.53	17.86	18.52	19.78	19.55	20.18	20.52	21.17	22.44
	4H	17.18	17.75	18.15	18.73	20.02	20.07	20.65	21.05	21.63	22.92
	6H	17.30	17.80	18.29	18.80	20.09	20.43	20.93	21.42	21.93	23.22
	8H	17.31	17.77	18.30	18.77	20.07	20.54	21.00	21.53	22.00	23.30
	12H	17.28	17.70	18.29	18.71	20.02	20.59	21.01	21.60	22.02	23.33
8H	4H	17.63	18.09	18.62	19.09	20.39	20.20	20.67	21.19	21.66	22.97
	6H	17.89	18.27	18.91	19.31	20.61	20.63	21.01	21.65	22.05	23.36
	8H	17.93	18.27	18.96	19.30	20.62	20.78	21.12	21.80	22.14	23.46
	12H	17.92	18.22	18.95	19.24	20.60	20.87	21.17	21.90	22.19	23.56
12H	4H	17.63	18.05	18.64	19.07	20.37	20.17	20.59	21.18	21.60	22.91
	6H	17.95	18.29	18.97	19.31	20.63	20.63	20.97	21.65	21.99	23.31
	8H	18.02	18.31	19.04	19.34	20.70	20.79	21.08	21.81	22.11	23.47