

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: P934004

Luminaire Tested: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934004
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

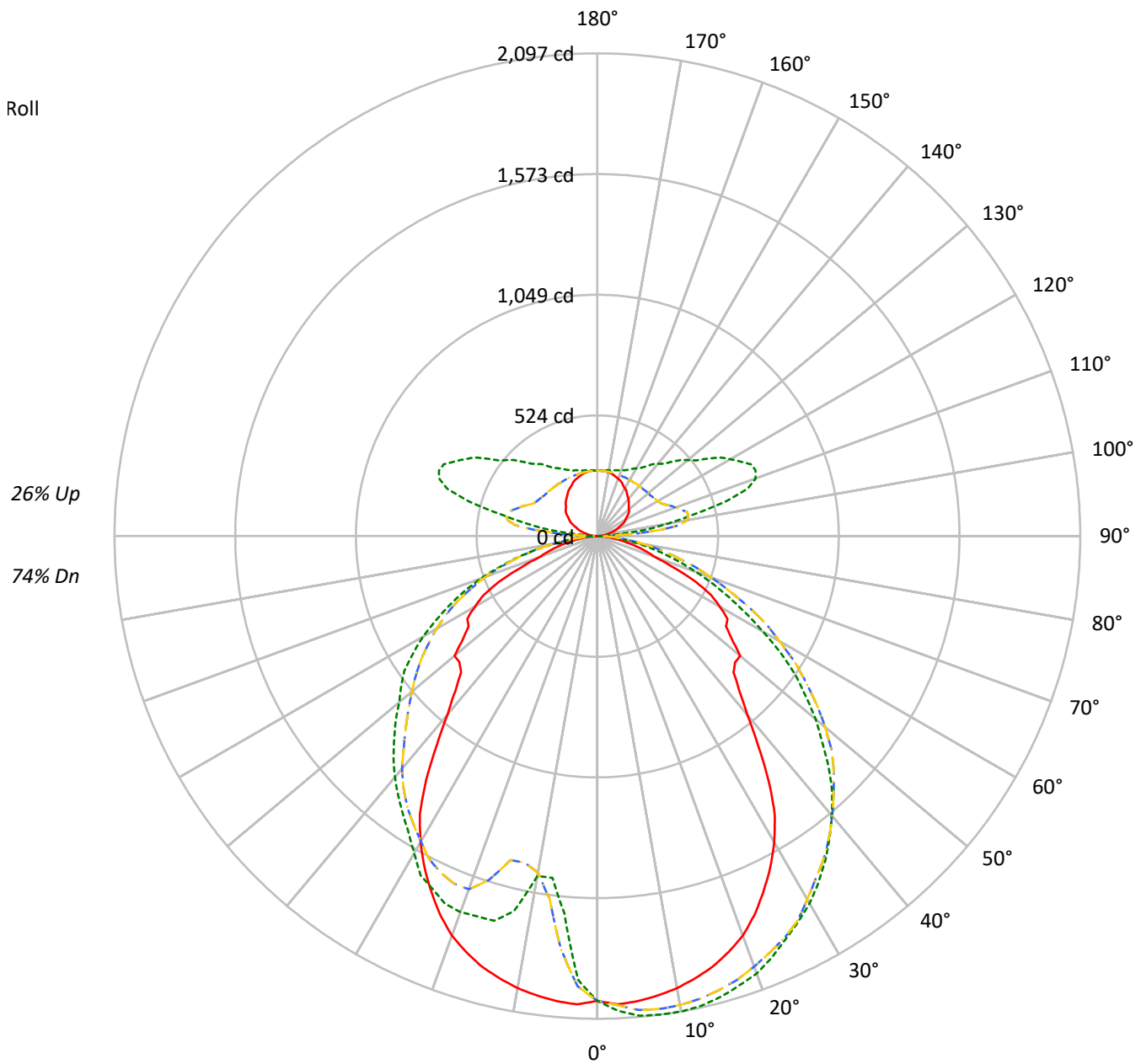
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7083.3 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

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

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - 90°-270° - · - 135°-315°



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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	50	30	10	0
RCR																					
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9366	9366	9366	9366
5°	9436	9455	9436	7434
10°	9373	9314	9373	6659
15°	9271	9112	9271	7609
20°	9078	8873	9078	7624
25°	8680	8524	8680	7463
30°	8167	8235	8167	7108
35°	7281	7868	7281	6718
40°	6067	7437	6067	6424
45°	5422	6933	5422	6085
50°	5759	6331	5759	5745
55°	5419	5683	5419	5549
60°	5586	4827	5586	5082
65°	5065	3990	5065	4460
70°	3507	3180	3507	3739
75°	3074	2351	3074	2815
80°	2478	1554	2478	1692
85°	1425	823	1425	699

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8309 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	2.6
10°-20°	517.4	7.3
20°-30°	799.8	11.3
30°-40°	954.8	13.5
40°-50°	960.4	13.6
50°-60°	835.7	11.8
60°-70°	592.5	8.4
70°-80°	313.5	4.4
80°-90°	79.2	1.1
90°-100°	138.9	2.0
100°-110°	365.3	5.2
110°-120°	378.8	5.3
120°-130°	303.8	4.3
130°-140°	238.4	3.4
140°-150°	183.0	2.6
150°-160°	131.8	1.9
160°-170°	80.6	1.1
170°-180°	27.2	0.4
0°-30°	1499.4	21.2
0°-40°	2454.2	34.6
0°-60°	4250.3	60.0
0°-90°	5235.5	73.9
90°-120°	883.0	12.5
90°-150°	1608.2	22.7
90°-180°	1848.0	26.1
0°-180°	7083.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2019	2019	2019	2019	2019	
5°	2028	2091	2028	1644	2028	192
15°	1937	2072	1937	1730	1937	545
25°	1706	1933	1706	1692	1706	783
35°	1297	1725	1297	1472	1297	802
45°	837	1421	837	1247	837	670
55°	682	1049	682	1024	682	627
65°	474	632	474	707	474	453
75°	180	300	180	359	180	189
85°	31	76	31	65	31	41
90°	2	7	2	7	2	3
95°	18	84	18	84	18	20
105°	66	572	66	572	66	70
115°	117	736	117	736	117	115
125°	163	587	163	587	163	144
135°	194	455	194	455	194	150
145°	225	369	225	369	225	141
155°	254	318	254	318	254	117
165°	274	296	274	296	274	77
175°	285	287	285	287	285	27
180°	285	285	285	285	285	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2036.0	2036.0	2047.4	2051.2	2051.2	2045.5	2039.8	2045.5	2062.7	2068.4	2066.5
5°	2028.3	2043.6	2064.6	2068.4	2072.3	2070.3	2066.5	2070.3	2089.4	2093.3	2095.2
7.5°	2013.0	2041.7	2068.4	2074.2	2079.9	2074.2	2072.3	2076.1	2095.2	2099.0	2099.0
10°	1993.9	2034.1	2064.6	2068.4	2074.2	2068.4	2068.4	2076.1	2095.2	2099.0	2100.9
12.5°	1967.2	2022.6	2051.2	2055.1	2062.7	2060.8	2058.9	2066.5	2085.6	2089.4	2089.4
15°	1936.6	2001.6	2028.3	2032.1	2045.5	2041.7	2041.7	2049.3	2070.3	2076.1	2074.2
17.5°	1894.6	1974.8	2005.4	2011.1	2020.7	2018.8	2020.7	2028.3	2047.4	2051.2	2053.2
20°	1846.9	1938.6	1974.8	1980.6	1990.1	1990.1	1990.1	1999.7	2018.8	2026.4	2026.4
22.5°	1781.9	1900.4	1938.6	1942.4	1953.8	1953.8	1957.7	1971.0	1988.2	1990.1	1990.1
25°	1705.5	1858.3	1890.8	1902.3	1913.7	1919.5	1925.2	1932.8	1938.6	1936.6	1938.6
27.5°	1625.3	1804.9	1846.9	1854.5	1869.8	1875.5	1883.2	1885.1	1887.0	1892.7	1888.9
30°	1535.5	1730.4	1793.4	1801.0	1825.9	1829.7	1822.0	1825.9	1835.4	1839.2	1843.1
32.5°	1434.3	1619.6	1738.0	1755.2	1778.1	1766.7	1764.7	1770.5	1785.8	1785.8	1789.6
35°	1296.8	1533.6	1686.4	1701.7	1718.9	1705.5	1713.2	1715.1	1724.6	1730.4	1728.5
37.5°	1145.9	1459.1	1633.0	1644.4	1657.8	1640.6	1652.1	1657.8	1665.4	1661.6	1661.6
40°	1012.3	1342.6	1569.9	1577.6	1589.0	1575.7	1587.1	1590.9	1594.8	1590.9	1589.0
42.5°	913.0	1214.7	1503.1	1512.6	1505.0	1514.5	1518.4	1526.0	1520.3	1512.6	1512.6
45°	836.6	1180.3	1430.5	1442.0	1430.5	1445.8	1451.5	1451.5	1434.3	1430.5	1428.6
47.5°	811.8	1111.6	1357.9	1357.9	1352.2	1371.3	1380.8	1367.5	1350.3	1344.5	1344.5
50°	809.8	1035.2	1258.6	1251.0	1277.7	1300.6	1291.1	1277.7	1264.3	1243.3	1243.3
52.5°	735.4	941.6	1130.7	1159.3	1201.3	1214.7	1199.4	1186.0	1163.1	1153.5	1145.9
55°	681.9	844.2	1014.2	1071.5	1115.4	1132.6	1104.0	1090.6	1056.2	1050.5	1046.7
57.5°	670.4	702.9	907.2	979.8	1033.3	1031.4	1014.2	989.4	960.7	955.0	953.1
60°	615.0	508.1	792.6	878.6	934.0	928.3	913.0	890.1	863.3	859.5	855.7
62.5°	557.7	368.6	662.8	760.2	838.5	836.6	823.2	788.8	769.7	760.2	752.5
65°	473.7	309.4	471.8	632.2	744.9	748.7	720.1	695.2	674.2	662.8	660.9
67.5°	361.0	252.1	319.0	527.2	655.1	651.3	615.0	603.6	576.8	571.1	559.6
70°	267.4	168.1	221.6	427.8	567.3	557.7	529.1	515.7	490.9	477.5	469.9
72.5°	221.6	135.6	162.4	332.3	477.5	466.0	441.2	425.9	404.9	393.5	385.8
75°	179.5	143.2	124.2	246.4	387.7	380.1	357.2	341.9	324.7	309.4	311.3
77.5°	131.8	133.7	99.3	181.4	307.5	296.0	282.7	263.6	255.9	240.7	240.7
80°	99.3	105.0	74.5	124.2	221.6	221.6	210.1	196.7	183.4	175.7	175.7
82.5°	66.8	66.8	55.4	78.3	150.9	145.2	137.5	133.7	126.1	122.2	122.2
85°	30.6	38.2	34.4	47.8	82.1	86.0	86.0	82.1	80.2	76.4	78.3
87.5°	9.5	17.2	21.0	26.7	42.0	43.9	45.8	45.8	45.8	47.8	47.8
90°	1.9	3.4	5.0	5.3	8.4	12.5	14.5	12.9	9.6	7.3	7.3
92.5°	7.6	20.6	33.7	37.0	52.0	71.9	81.8	71.7	51.6	36.4	35.0
95°	18.3	42.1	66.0	71.9	127.7	202.1	239.3	213.5	162.1	123.4	119.0
97.5°	31.8	52.8	73.7	79.0	172.0	296.0	358.1	341.9	309.3	284.9	276.6
100°	42.1	61.1	80.1	84.9	188.1	325.8	394.6	395.8	398.2	400.0	390.1
102.5°	50.9	68.7	86.4	90.8	195.6	335.2	405.0	425.7	467.2	498.3	489.8
105°	65.8	80.9	96.0	99.7	201.1	336.3	403.9	450.4	543.4	613.1	608.5
107.5°	81.1	95.1	109.2	112.7	202.1	321.3	380.9	445.7	575.5	672.8	673.9
110°	91.5	104.1	116.8	119.9	200.5	308.0	361.8	434.2	579.3	688.1	692.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	101.6	113.6	125.7	128.7	200.6	296.4	344.4	418.6	567.0	678.3	685.7
115°	116.9	128.0	139.1	141.9	202.5	283.2	323.5	395.0	538.0	645.3	655.4
117.5°	132.0	142.1	152.2	154.8	206.3	274.8	309.1	373.7	502.7	599.5	610.8
120°	140.8	150.3	159.9	162.3	209.3	272.1	303.4	362.3	480.3	568.7	579.6
122.5°	149.4	159.0	168.7	171.0	213.7	270.6	299.0	352.1	458.3	538.0	548.7
125°	162.6	171.4	180.1	182.3	219.6	269.4	294.2	339.3	429.6	497.2	507.1
127.5°	173.3	182.1	191.0	193.2	225.6	268.6	290.2	329.0	406.4	464.5	472.9
130°	179.1	188.6	198.1	200.5	229.9	269.1	288.7	323.2	392.1	443.8	451.5
132.5°	185.0	194.5	204.0	206.4	233.4	269.4	287.4	318.2	379.9	426.2	433.2
135°	193.8	202.5	211.2	213.3	237.2	269.1	285.1	310.9	362.6	401.4	407.3
137.5°	202.7	211.3	219.9	222.1	243.0	270.7	284.7	306.6	350.2	383.0	387.8
140°	210.2	218.1	226.0	228.1	246.5	271.0	283.3	302.3	340.0	368.2	372.8
142.5°	216.0	223.3	230.6	232.4	249.4	272.1	283.3	300.0	333.1	357.9	361.8
145°	224.8	231.2	237.5	239.1	253.3	272.1	281.4	295.0	322.1	342.5	345.4
147.5°	233.6	239.8	246.0	247.5	258.8	273.9	281.4	292.1	313.4	329.4	331.9
150°	239.3	245.0	250.5	251.9	261.8	274.8	281.4	290.4	308.5	321.9	323.9
152.5°	245.2	249.4	253.7	254.8	263.7	275.5	281.4	289.1	304.5	316.0	317.5
155°	254.0	257.2	260.3	261.1	267.9	277.0	281.4	287.6	299.8	308.9	309.9
157.5°	260.5	263.6	266.6	267.4	272.1	278.3	281.4	286.2	295.7	302.8	303.5
160°	264.9	267.3	269.7	270.3	274.0	279.0	281.4	285.5	293.7	299.8	300.2
162.5°	269.3	271.1	272.8	273.3	276.0	279.6	281.4	284.9	291.8	296.9	297.3
165°	274.2	275.8	277.4	277.8	279.1	280.7	281.4	283.9	288.8	292.5	292.9
167.5°	278.6	279.3	280.1	280.3	281.3	282.7	283.3	285.0	288.2	290.6	290.8
170°	281.4	282.2	283.0	283.2	283.3	283.3	283.3	285.0	288.2	290.6	290.6
172.5°	283.0	283.2	283.3	283.3	283.3	283.3	283.3	284.6	287.2	289.1	288.9
175°	285.1	285.1	285.1	285.1	284.5	283.7	283.3	284.1	285.7	287.0	287.0
177.5°	285.1	285.1	285.1	285.1	284.6	284.0	283.7	284.4	285.6	286.6	286.4
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2070.3	2064.6	2070.3	2066.5	2068.4	2062.7	2045.5	2039.8	2045.5	2051.2	2051.2
5°	2095.2	2091.4	2095.2	2095.2	2093.3	2089.4	2070.3	2066.5	2070.3	2072.3	2068.4
7.5°	2102.8	2097.1	2102.8	2099.0	2099.0	2095.2	2076.1	2072.3	2074.2	2079.9	2074.2
10°	2102.8	2097.1	2102.8	2100.9	2099.0	2095.2	2076.1	2068.4	2068.4	2074.2	2068.4
12.5°	2093.3	2089.4	2093.3	2089.4	2089.4	2085.6	2066.5	2058.9	2060.8	2062.7	2055.1
15°	2078.0	2072.3	2078.0	2074.2	2076.1	2070.3	2049.3	2041.7	2041.7	2045.5	2032.1
17.5°	2055.1	2047.4	2055.1	2053.2	2051.2	2047.4	2028.3	2020.7	2018.8	2020.7	2011.1
20°	2028.3	2022.6	2028.3	2026.4	2026.4	2018.8	1999.7	1990.1	1990.1	1990.1	1980.6
22.5°	1986.3	1980.6	1986.3	1990.1	1990.1	1988.2	1971.0	1957.7	1953.8	1953.8	1942.4
25°	1938.6	1932.8	1938.6	1938.6	1936.6	1938.6	1932.8	1925.2	1919.5	1913.7	1902.3
27.5°	1892.7	1888.9	1892.7	1888.9	1892.7	1887.0	1885.1	1883.2	1875.5	1869.8	1854.5
30°	1846.9	1843.1	1846.9	1843.1	1839.2	1835.4	1825.9	1822.0	1829.7	1825.9	1801.0
32.5°	1789.6	1785.8	1789.6	1789.6	1785.8	1785.8	1770.5	1764.7	1766.7	1778.1	1755.2
35°	1730.4	1724.6	1730.4	1728.5	1730.4	1724.6	1715.1	1713.2	1705.5	1718.9	1701.7
37.5°	1661.6	1655.9	1661.6	1661.6	1661.6	1665.4	1657.8	1652.1	1640.6	1657.8	1644.4
40°	1590.9	1583.3	1590.9	1589.0	1590.9	1594.8	1590.9	1587.1	1575.7	1589.0	1577.6
42.5°	1510.7	1508.8	1510.7	1512.6	1512.6	1520.3	1526.0	1518.4	1514.5	1505.0	1512.6
45°	1424.8	1420.9	1424.8	1428.6	1430.5	1434.3	1451.5	1451.5	1445.8	1430.5	1442.0
47.5°	1333.1	1323.5	1333.1	1344.5	1344.5	1350.3	1367.5	1380.8	1371.3	1352.2	1357.9
50°	1235.7	1237.6	1235.7	1243.3	1243.3	1264.3	1277.7	1291.1	1300.6	1277.7	1251.0
52.5°	1140.2	1138.4	1140.2	1145.9	1153.5	1163.1	1186.0	1199.4	1214.7	1201.3	1159.3
55°	1044.8	1048.6	1044.8	1046.7	1050.5	1056.2	1090.6	1104.0	1132.6	1115.4	1071.5
57.5°	949.3	943.5	949.3	953.1	955.0	960.7	989.4	1014.2	1031.4	1033.3	979.8
60°	838.5	830.8	838.5	855.7	859.5	863.3	890.1	913.0	928.3	934.0	878.6
62.5°	741.1	727.7	741.1	752.5	760.2	769.7	788.8	823.2	836.6	838.5	760.2
65°	637.9	632.2	637.9	660.9	662.8	674.2	695.2	720.1	748.7	744.9	632.2
67.5°	544.4	544.4	544.4	559.6	571.1	576.8	603.6	615.0	651.3	655.1	527.2
70°	458.4	456.5	458.4	469.9	477.5	490.9	515.7	529.1	557.7	567.3	427.8
72.5°	376.3	374.4	376.3	385.8	393.5	404.9	425.9	441.2	466.0	477.5	332.3
75°	303.7	299.9	303.7	311.3	309.4	324.7	341.9	357.2	380.1	387.7	246.4
77.5°	233.0	233.0	233.0	240.7	240.7	255.9	263.6	282.7	296.0	307.5	181.4
80°	173.8	171.9	173.8	175.7	175.7	183.4	196.7	210.1	221.6	221.6	124.2
82.5°	122.2	118.4	122.2	122.2	122.2	126.1	133.7	137.5	145.2	150.9	78.3
85°	76.4	76.4	76.4	78.3	76.4	80.2	82.1	86.0	86.0	82.1	47.8
87.5°	49.7	47.8	49.7	47.8	47.8	45.8	45.8	45.8	43.9	42.0	26.7
90°	7.3	7.3	7.3	7.3	7.3	9.6	12.9	14.5	12.5	8.4	5.3
92.5°	29.1	23.3	29.1	35.0	36.4	51.6	71.7	81.8	71.9	52.0	37.0
95°	101.5	83.9	101.5	119.0	123.4	162.1	213.5	239.3	202.1	127.7	71.9
97.5°	243.1	209.8	243.1	276.6	284.9	309.3	341.9	358.1	296.0	172.0	79.0
100°	350.4	310.7	350.4	390.1	400.0	398.2	395.8	394.6	325.8	188.1	84.9
102.5°	455.8	421.8	455.8	489.8	498.3	467.2	425.7	405.0	335.2	195.6	90.8
105°	590.3	571.9	590.3	608.5	613.1	543.4	450.4	403.9	336.3	201.1	99.7
107.5°	678.3	682.7	678.3	673.9	672.8	575.5	445.7	380.9	321.3	202.1	112.7
110°	711.9	731.0	711.9	692.9	688.1	579.3	434.2	361.8	308.0	200.5	119.9



TEST NUMBER: P934004

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	714.9	744.1	714.9	685.7	678.3	567.0	418.6	344.4	296.4	200.6	128.7
115°	696.0	736.5	696.0	655.4	645.3	538.0	395.0	323.5	283.2	202.5	141.9
117.5°	655.8	700.8	655.8	610.8	599.5	502.7	373.7	309.1	274.8	206.3	154.8
120°	623.3	667.1	623.3	579.6	568.7	480.3	362.3	303.4	272.1	209.3	162.3
122.5°	591.8	634.9	591.8	548.7	538.0	458.3	352.1	299.0	270.6	213.7	171.0
125°	546.8	586.6	546.8	507.1	497.2	429.6	339.3	294.2	269.4	219.6	182.3
127.5°	506.3	539.9	506.3	472.9	464.5	406.4	329.0	290.2	268.6	225.6	193.2
130°	482.5	513.4	482.5	451.5	443.8	392.1	323.2	288.7	269.1	229.9	200.5
132.5°	460.9	488.6	460.9	433.2	426.2	379.9	318.2	287.4	269.4	233.4	206.4
135°	431.2	455.1	431.2	407.3	401.4	362.6	310.9	285.1	269.1	237.2	213.3
137.5°	407.4	427.0	407.4	387.8	383.0	350.2	306.6	284.7	270.7	243.0	222.1
140°	391.1	409.4	391.1	372.8	368.2	340.0	302.3	283.3	271.0	246.5	228.1
142.5°	377.6	393.3	377.6	361.8	357.9	333.1	300.0	283.3	272.1	249.4	232.4
145°	357.4	369.2	357.4	345.4	342.5	322.1	295.0	281.4	272.1	253.3	239.1
147.5°	341.7	351.6	341.7	331.9	329.4	313.4	292.1	281.4	273.9	258.8	247.5
150°	332.0	340.0	332.0	323.9	321.9	308.5	290.4	281.4	274.8	261.8	251.9
152.5°	323.6	329.6	323.6	317.5	316.0	304.5	289.1	281.4	275.5	263.7	254.8
155°	313.9	317.9	313.9	309.9	308.9	299.8	287.6	281.4	277.0	267.9	261.1
157.5°	306.4	309.1	306.4	303.5	302.8	295.7	286.2	281.4	278.3	272.1	267.4
160°	301.8	303.4	301.8	300.2	299.8	293.7	285.5	281.4	279.0	274.0	270.3
162.5°	298.8	300.3	298.8	297.3	296.9	291.8	284.9	281.4	279.6	276.0	273.3
165°	294.5	296.1	294.5	292.9	292.5	288.8	283.9	281.4	280.7	279.1	277.8
167.5°	291.5	292.1	291.5	290.8	290.6	288.2	285.0	283.3	282.7	281.3	280.3
170°	290.6	290.6	290.6	290.6	290.6	288.2	285.0	283.3	283.3	283.3	283.2
172.5°	288.3	287.7	288.3	288.9	289.1	287.2	284.6	283.3	283.3	283.3	283.3
175°	287.0	287.0	287.0	287.0	287.0	285.7	284.1	283.3	283.7	284.5	285.1
177.5°	285.7	285.1	285.7	286.4	286.6	285.6	284.4	283.7	284.0	284.6	285.1
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1



TEST NUMBER: P934004

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2047.4	2036.0	2036.0	2016.9	2009.2	2003.5	1993.9	1965.3	1957.7	1950.0	1961.5
5°	2064.6	2043.6	2028.3	1993.9	1965.3	1953.8	1917.5	1848.8	1802.9	1768.6	1749.5
7.5°	2068.4	2041.7	2013.0	1959.6	1890.8	1860.2	1749.5	1623.4	1589.0	1558.5	1539.4
10°	2064.6	2034.1	1993.9	1913.7	1751.4	1697.9	1587.1	1505.0	1484.0	1478.2	1484.0
12.5°	2051.2	2022.6	1967.2	1833.5	1606.2	1569.9	1505.0	1457.2	1453.4	1463.0	1514.5
15°	2028.3	2001.6	1936.6	1726.5	1526.0	1499.3	1453.4	1436.2	1457.2	1524.1	1678.8
17.5°	2005.4	1974.8	1894.6	1621.5	1464.9	1445.8	1413.3	1447.7	1566.1	1655.9	1707.4
20°	1974.8	1938.6	1846.9	1545.1	1420.9	1403.8	1388.5	1543.2	1633.0	1665.4	1694.1
22.5°	1938.6	1900.4	1781.9	1491.6	1375.1	1361.7	1371.3	1596.7	1633.0	1655.9	1680.7
25°	1890.8	1858.3	1705.5	1449.6	1338.8	1323.5	1359.8	1590.9	1611.9	1617.7	1667.3
27.5°	1846.9	1804.9	1625.3	1411.4	1294.9	1289.2	1369.4	1566.1	1581.4	1587.1	1640.6
30°	1793.4	1730.4	1535.5	1371.3	1249.0	1247.1	1371.3	1535.5	1531.7	1547.0	1600.5
32.5°	1738.0	1619.6	1434.3	1321.6	1205.1	1203.2	1357.9	1489.7	1485.9	1506.9	1547.0
35°	1686.4	1533.6	1296.8	1264.3	1149.7	1151.6	1325.4	1436.2	1438.1	1457.2	1482.1
37.5°	1633.0	1459.1	1145.9	1201.3	1096.3	1096.3	1281.5	1386.6	1382.7	1388.5	1422.9
40°	1569.9	1342.6	1012.3	1119.3	1046.7	1041.0	1228.0	1333.1	1319.7	1317.8	1365.6
42.5°	1503.1	1214.7	913.0	1010.4	989.4	981.7	1163.1	1268.1	1243.3	1249.0	1310.2
45°	1430.5	1180.3	836.6	853.8	930.2	924.4	1092.5	1193.7	1176.5	1191.7	1254.8
47.5°	1357.9	1111.6	811.8	708.6	867.1	865.2	1014.2	1121.2	1111.6	1126.9	1193.7
50°	1258.6	1035.2	809.8	607.4	796.5	804.1	920.6	1050.5	1050.5	1063.9	1134.5
52.5°	1130.7	941.6	735.4	550.1	714.3	737.3	838.5	989.4	993.2	1006.6	1069.6
55°	1014.2	844.2	681.9	506.2	616.9	666.6	758.3	926.4	934.0	947.4	1004.7
57.5°	907.2	702.9	670.4	454.6	527.2	574.9	687.6	865.2	869.0	880.5	935.9
60°	792.6	508.1	615.0	399.2	448.8	485.1	622.7	792.6	806.0	813.7	861.4
62.5°	662.8	368.6	557.7	361.0	410.6	418.3	569.2	723.9	741.1	746.8	775.5
65°	471.8	309.4	473.7	328.5	370.5	372.4	511.9	653.2	668.5	678.0	699.1
67.5°	319.0	252.1	361.0	298.0	340.0	341.9	456.5	571.1	592.1	599.7	613.1
70°	221.6	168.1	267.4	265.5	305.6	309.4	397.3	496.6	515.7	521.4	529.1
72.5°	162.4	135.6	221.6	238.8	269.3	273.1	336.2	412.6	431.7	437.4	441.2
75°	124.2	143.2	179.5	208.2	229.2	231.1	275.0	336.2	349.5	353.3	355.3
77.5°	99.3	133.7	131.8	168.1	187.2	183.4	215.8	259.8	271.2	271.2	271.2
80°	74.5	105.0	99.3	120.3	137.5	133.7	154.7	185.3	189.1	192.9	191.0
82.5°	55.4	66.8	66.8	76.4	91.7	87.9	103.1	120.3	120.3	120.3	124.2
85°	34.4	38.2	30.6	40.1	51.6	49.7	57.3	64.9	66.8	66.8	63.0
87.5°	21.0	17.2	9.5	15.3	22.9	22.9	26.7	28.6	26.7	26.7	26.7
90°	5.0	3.4	1.9	3.4	5.0	5.3	8.4	12.5	14.5	12.9	9.6
92.5°	33.7	20.6	7.6	20.6	33.7	37.0	52.0	71.9	81.8	71.7	51.6
95°	66.0	42.1	18.3	42.1	66.0	71.9	127.7	202.1	239.3	213.5	162.1
97.5°	73.7	52.8	31.8	52.8	73.7	79.0	172.0	296.0	358.1	341.9	309.3
100°	80.1	61.1	42.1	61.1	80.1	84.9	188.1	325.8	394.6	395.8	398.2
102.5°	86.4	68.7	50.9	68.7	86.4	90.8	195.6	335.2	405.0	425.7	467.2
105°	96.0	80.9	65.8	80.9	96.0	99.7	201.1	336.3	403.9	450.4	543.4
107.5°	109.2	95.1	81.1	95.1	109.2	112.7	202.1	321.3	380.9	445.7	575.5
110°	116.8	104.1	91.5	104.1	116.8	119.9	200.5	308.0	361.8	434.2	579.3



TEST NUMBER: P934004

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	125.7	113.6	101.6	113.6	125.7	128.7	200.6	296.4	344.4	418.6	567.0
115°	139.1	128.0	116.9	128.0	139.1	141.9	202.5	283.2	323.5	395.0	538.0
117.5°	152.2	142.1	132.0	142.1	152.2	154.8	206.3	274.8	309.1	373.7	502.7
120°	159.9	150.3	140.8	150.3	159.9	162.3	209.3	272.1	303.4	362.3	480.3
122.5°	168.7	159.0	149.4	159.0	168.7	171.0	213.7	270.6	299.0	352.1	458.3
125°	180.1	171.4	162.6	171.4	180.1	182.3	219.6	269.4	294.2	339.3	429.6
127.5°	191.0	182.1	173.3	182.1	191.0	193.2	225.6	268.6	290.2	329.0	406.4
130°	198.1	188.6	179.1	188.6	198.1	200.5	229.9	269.1	288.7	323.2	392.1
132.5°	204.0	194.5	185.0	194.5	204.0	206.4	233.4	269.4	287.4	318.2	379.9
135°	211.2	202.5	193.8	202.5	211.2	213.3	237.2	269.1	285.1	310.9	362.6
137.5°	219.9	211.3	202.7	211.3	219.9	222.1	243.0	270.7	284.7	306.6	350.2
140°	226.0	218.1	210.2	218.1	226.0	228.1	246.5	271.0	283.3	302.3	340.0
142.5°	230.6	223.3	216.0	223.3	230.6	232.4	249.4	272.1	283.3	300.0	333.1
145°	237.5	231.2	224.8	231.2	237.5	239.1	253.3	272.1	281.4	295.0	322.1
147.5°	246.0	239.8	233.6	239.8	246.0	247.5	258.8	273.9	281.4	292.1	313.4
150°	250.5	245.0	239.3	245.0	250.5	251.9	261.8	274.8	281.4	290.4	308.5
152.5°	253.7	249.4	245.2	249.4	253.7	254.8	263.7	275.5	281.4	289.1	304.5
155°	260.3	257.2	254.0	257.2	260.3	261.1	267.9	277.0	281.4	287.6	299.8
157.5°	266.6	263.6	260.5	263.6	266.6	267.4	272.1	278.3	281.4	286.2	295.7
160°	269.7	267.3	264.9	267.3	269.7	270.3	274.0	279.0	281.4	285.5	293.7
162.5°	272.8	271.1	269.3	271.1	272.8	273.3	276.0	279.6	281.4	284.9	291.8
165°	277.4	275.8	274.2	275.8	277.4	277.8	279.1	280.7	281.4	283.9	288.8
167.5°	280.1	279.3	278.6	279.3	280.1	280.3	281.3	282.7	283.3	285.0	288.2
170°	283.0	282.2	281.4	282.2	283.0	283.2	283.3	283.3	283.3	285.0	288.2
172.5°	283.3	283.2	283.0	283.2	283.3	283.3	283.3	283.3	283.3	284.6	287.2
175°	285.1	285.1	285.1	285.1	285.1	285.1	284.5	283.7	283.3	284.1	285.7
177.5°	285.1	285.1	285.1	285.1	285.1	285.1	284.6	284.0	283.7	284.4	285.6
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1



TEST NUMBER: P934004

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	1948.1	1942.4	1950.0	1929.0	1950.0	1942.4	1948.1	1961.5	1950.0	1957.7	1965.3
5°	1709.4	1699.8	1669.2	1644.4	1669.2	1699.8	1709.4	1749.5	1768.6	1802.9	1848.8
7.5°	1527.9	1520.3	1512.6	1497.3	1512.6	1520.3	1527.9	1539.4	1558.5	1589.0	1623.4
10°	1487.8	1489.7	1501.2	1499.3	1501.2	1489.7	1487.8	1484.0	1478.2	1484.0	1505.0
12.5°	1590.9	1608.1	1671.2	1667.3	1671.2	1608.1	1590.9	1514.5	1463.0	1453.4	1457.2
15°	1709.4	1715.1	1728.5	1730.4	1728.5	1715.1	1709.4	1678.8	1524.1	1457.2	1436.2
17.5°	1720.8	1722.7	1732.3	1732.3	1732.3	1722.7	1720.8	1707.4	1655.9	1566.1	1447.7
20°	1711.3	1715.1	1734.2	1738.0	1734.2	1715.1	1711.3	1694.1	1665.4	1633.0	1543.2
22.5°	1707.4	1715.1	1730.4	1728.5	1730.4	1715.1	1707.4	1680.7	1655.9	1633.0	1596.7
25°	1688.3	1688.3	1690.3	1692.2	1690.3	1688.3	1688.3	1667.3	1617.7	1611.9	1590.9
27.5°	1648.2	1652.1	1663.5	1661.6	1663.5	1652.1	1648.2	1640.6	1587.1	1581.4	1566.1
30°	1611.9	1608.1	1598.6	1590.9	1598.6	1608.1	1611.9	1600.5	1547.0	1531.7	1535.5
32.5°	1550.8	1541.3	1531.7	1526.0	1531.7	1541.3	1550.8	1547.0	1506.9	1485.9	1489.7
35°	1478.2	1480.2	1478.2	1472.5	1478.2	1480.2	1478.2	1482.1	1457.2	1438.1	1436.2
37.5°	1426.7	1430.5	1428.6	1420.9	1428.6	1430.5	1426.7	1422.9	1388.5	1382.7	1386.6
40°	1373.2	1375.1	1373.2	1367.5	1373.2	1375.1	1373.2	1365.6	1317.8	1319.7	1333.1
42.5°	1321.6	1319.7	1314.0	1310.2	1314.0	1319.7	1321.6	1310.2	1249.0	1243.3	1268.1
45°	1262.4	1264.3	1252.9	1247.1	1252.9	1264.3	1262.4	1254.8	1191.7	1176.5	1193.7
47.5°	1203.2	1203.2	1193.7	1187.9	1193.7	1203.2	1203.2	1193.7	1126.9	1111.6	1121.2
50°	1140.2	1138.4	1125.0	1123.1	1125.0	1138.4	1140.2	1134.5	1063.9	1050.5	1050.5
52.5°	1067.7	1067.7	1069.6	1073.4	1069.6	1067.7	1067.7	1069.6	1006.6	993.2	989.4
55°	1004.7	1006.6	1019.9	1023.8	1019.9	1006.6	1004.7	1004.7	947.4	934.0	926.4
57.5°	939.7	939.7	949.3	949.3	949.3	939.7	939.7	935.9	880.5	869.0	865.2
60°	865.2	869.0	876.7	874.8	876.7	869.0	865.2	861.4	813.7	806.0	792.6
62.5°	786.9	790.7	792.6	788.8	792.6	790.7	786.9	775.5	746.8	741.1	723.9
65°	704.8	708.6	710.5	706.7	710.5	708.6	704.8	699.1	678.0	668.5	653.2
67.5°	620.8	618.8	616.9	624.6	616.9	618.8	620.8	613.1	599.7	592.1	571.1
70°	534.8	534.8	532.9	536.7	532.9	534.8	534.8	529.1	521.4	515.7	496.6
72.5°	443.1	441.2	448.8	443.1	448.8	441.2	443.1	441.2	437.4	431.7	412.6
75°	353.3	357.2	353.3	359.1	353.3	357.2	353.3	355.3	353.3	349.5	336.2
77.5°	269.3	273.1	269.3	269.3	269.3	273.1	269.3	271.2	271.2	271.2	259.8
80°	191.0	189.1	189.1	187.2	189.1	189.1	191.0	191.0	192.9	189.1	185.3
82.5°	122.2	120.3	120.3	124.2	120.3	120.3	122.2	124.2	120.3	120.3	120.3
85°	66.8	68.8	64.9	64.9	64.9	68.8	66.8	63.0	66.8	66.8	64.9
87.5°	24.8	22.9	22.9	22.9	22.9	22.9	24.8	26.7	26.7	26.7	28.6
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.6	12.9	14.5	12.5
92.5°	36.4	35.0	29.1	23.3	29.1	35.0	36.4	51.6	71.7	81.8	71.9
95°	123.4	119.0	101.5	83.9	101.5	119.0	123.4	162.1	213.5	239.3	202.1
97.5°	284.9	276.6	243.1	209.8	243.1	276.6	284.9	309.3	341.9	358.1	296.0
100°	400.0	390.1	350.4	310.7	350.4	390.1	400.0	398.2	395.8	394.6	325.8
102.5°	498.3	489.8	455.8	421.8	455.8	489.8	498.3	467.2	425.7	405.0	335.2
105°	613.1	608.5	590.3	571.9	590.3	608.5	613.1	543.4	450.4	403.9	336.3
107.5°	672.8	673.9	678.3	682.7	678.3	673.9	672.8	575.5	445.7	380.9	321.3
110°	688.1	692.9	711.9	731.0	711.9	692.9	688.1	579.3	434.2	361.8	308.0



TEST NUMBER: P934004

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	678.3	685.7	714.9	744.1	714.9	685.7	678.3	567.0	418.6	344.4	296.4
115°	645.3	655.4	696.0	736.5	696.0	655.4	645.3	538.0	395.0	323.5	283.2
117.5°	599.5	610.8	655.8	700.8	655.8	610.8	599.5	502.7	373.7	309.1	274.8
120°	568.7	579.6	623.3	667.1	623.3	579.6	568.7	480.3	362.3	303.4	272.1
122.5°	538.0	548.7	591.8	634.9	591.8	548.7	538.0	458.3	352.1	299.0	270.6
125°	497.2	507.1	546.8	586.6	546.8	507.1	497.2	429.6	339.3	294.2	269.4
127.5°	464.5	472.9	506.3	539.9	506.3	472.9	464.5	406.4	329.0	290.2	268.6
130°	443.8	451.5	482.5	513.4	482.5	451.5	443.8	392.1	323.2	288.7	269.1
132.5°	426.2	433.2	460.9	488.6	460.9	433.2	426.2	379.9	318.2	287.4	269.4
135°	401.4	407.3	431.2	455.1	431.2	407.3	401.4	362.6	310.9	285.1	269.1
137.5°	383.0	387.8	407.4	427.0	407.4	387.8	383.0	350.2	306.6	284.7	270.7
140°	368.2	372.8	391.1	409.4	391.1	372.8	368.2	340.0	302.3	283.3	271.0
142.5°	357.9	361.8	377.6	393.3	377.6	361.8	357.9	333.1	300.0	283.3	272.1
145°	342.5	345.4	357.4	369.2	357.4	345.4	342.5	322.1	295.0	281.4	272.1
147.5°	329.4	331.9	341.7	351.6	341.7	331.9	329.4	313.4	292.1	281.4	273.9
150°	321.9	323.9	332.0	340.0	332.0	323.9	321.9	308.5	290.4	281.4	274.8
152.5°	316.0	317.5	323.6	329.6	323.6	317.5	316.0	304.5	289.1	281.4	275.5
155°	308.9	309.9	313.9	317.9	313.9	309.9	308.9	299.8	287.6	281.4	277.0
157.5°	302.8	303.5	306.4	309.1	306.4	303.5	302.8	295.7	286.2	281.4	278.3
160°	299.8	300.2	301.8	303.4	301.8	300.2	299.8	293.7	285.5	281.4	279.0
162.5°	296.9	297.3	298.8	300.3	298.8	297.3	296.9	291.8	284.9	281.4	279.6
165°	292.5	292.9	294.5	296.1	294.5	292.9	292.5	288.8	283.9	281.4	280.7
167.5°	290.6	290.8	291.5	292.1	291.5	290.8	290.6	288.2	285.0	283.3	282.7
170°	290.6	290.6	290.6	290.6	290.6	290.6	290.6	288.2	285.0	283.3	283.3
172.5°	289.1	288.9	288.3	287.7	288.3	288.9	289.1	287.2	284.6	283.3	283.3
175°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	285.7	284.1	283.3	283.7
177.5°	286.6	286.4	285.7	285.1	285.7	286.4	286.6	285.6	284.4	283.7	284.0
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1



TEST NUMBER: P934004

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	1993.9	2003.5	2009.2	2016.9	2036.0
5°	1917.5	1953.8	1965.3	1993.9	2028.3
7.5°	1749.5	1860.2	1890.8	1959.6	2013.0
10°	1587.1	1697.9	1751.4	1913.7	1993.9
12.5°	1505.0	1569.9	1606.2	1833.5	1967.2
15°	1453.4	1499.3	1526.0	1726.5	1936.6
17.5°	1413.3	1445.8	1464.9	1621.5	1894.6
20°	1388.5	1403.8	1420.9	1545.1	1846.9
22.5°	1371.3	1361.7	1375.1	1491.6	1781.9
25°	1359.8	1323.5	1338.8	1449.6	1705.5
27.5°	1369.4	1289.2	1294.9	1411.4	1625.3
30°	1371.3	1247.1	1249.0	1371.3	1535.5
32.5°	1357.9	1203.2	1205.1	1321.6	1434.3
35°	1325.4	1151.6	1149.7	1264.3	1296.8
37.5°	1281.5	1096.3	1096.3	1201.3	1145.9
40°	1228.0	1041.0	1046.7	1119.3	1012.3
42.5°	1163.1	981.7	989.4	1010.4	913.0
45°	1092.5	924.4	930.2	853.8	836.6
47.5°	1014.2	865.2	867.1	708.6	811.8
50°	920.6	804.1	796.5	607.4	809.8
52.5°	838.5	737.3	714.3	550.1	735.4
55°	758.3	666.6	616.9	506.2	681.9
57.5°	687.6	574.9	527.2	454.6	670.4
60°	622.7	485.1	448.8	399.2	615.0
62.5°	569.2	418.3	410.6	361.0	557.7
65°	511.9	372.4	370.5	328.5	473.7
67.5°	456.5	341.9	340.0	298.0	361.0
70°	397.3	309.4	305.6	265.5	267.4
72.5°	336.2	273.1	269.3	238.8	221.6
75°	275.0	231.1	229.2	208.2	179.5
77.5°	215.8	183.4	187.2	168.1	131.8
80°	154.7	133.7	137.5	120.3	99.3
82.5°	103.1	87.9	91.7	76.4	66.8
85°	57.3	49.7	51.6	40.1	30.6
87.5°	26.7	22.9	22.9	15.3	9.5
90°	8.4	5.3	5.0	3.4	1.9
92.5°	52.0	37.0	33.7	20.6	7.6
95°	127.7	71.9	66.0	42.1	18.3
97.5°	172.0	79.0	73.7	52.8	31.8
100°	188.1	84.9	80.1	61.1	42.1
102.5°	195.6	90.8	86.4	68.7	50.9
105°	201.1	99.7	96.0	80.9	65.8
107.5°	202.1	112.7	109.2	95.1	81.1
110°	200.5	119.9	116.8	104.1	91.5



TEST NUMBER: P934004

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	200.6	128.7	125.7	113.6	101.6
115°	202.5	141.9	139.1	128.0	116.9
117.5°	206.3	154.8	152.2	142.1	132.0
120°	209.3	162.3	159.9	150.3	140.8
122.5°	213.7	171.0	168.7	159.0	149.4
125°	219.6	182.3	180.1	171.4	162.6
127.5°	225.6	193.2	191.0	182.1	173.3
130°	229.9	200.5	198.1	188.6	179.1
132.5°	233.4	206.4	204.0	194.5	185.0
135°	237.2	213.3	211.2	202.5	193.8
137.5°	243.0	222.1	219.9	211.3	202.7
140°	246.5	228.1	226.0	218.1	210.2
142.5°	249.4	232.4	230.6	223.3	216.0
145°	253.3	239.1	237.5	231.2	224.8
147.5°	258.8	247.5	246.0	239.8	233.6
150°	261.8	251.9	250.5	245.0	239.3
152.5°	263.7	254.8	253.7	249.4	245.2
155°	267.9	261.1	260.3	257.2	254.0
157.5°	272.1	267.4	266.6	263.6	260.5
160°	274.0	270.3	269.7	267.3	264.9
162.5°	276.0	273.3	272.8	271.1	269.3
165°	279.1	277.8	277.4	275.8	274.2
167.5°	281.3	280.3	280.1	279.3	278.6
170°	283.3	283.2	283.0	282.2	281.4
172.5°	283.3	283.3	283.3	283.2	283.0
175°	284.5	285.1	285.1	285.1	285.1
177.5°	284.6	285.1	285.1	285.1	285.1
180°	285.1	285.1	285.1	285.1	285.1



TEST NUMBER: P934004
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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	14.55	15.67	15.27	16.41	17.30	17.38	18.51	18.10	19.25	20.13
	3H	15.04	16.05	15.78	16.81	17.72	18.75	19.76	19.49	20.51	21.43
	4H	15.25	16.20	16.00	16.96	17.89	19.21	20.16	19.96	20.92	21.85
	6H	15.38	16.26	16.14	17.03	17.97	19.51	20.39	20.28	21.16	22.10
	8H	15.39	16.23	16.16	17.02	17.96	19.59	20.43	20.37	21.22	22.16
	12H	15.37	16.17	16.15	16.95	17.92	19.64	20.44	20.42	21.22	22.19
4H	2H	15.61	16.57	16.37	17.33	18.25	17.82	18.78	18.58	19.54	20.47
	3H	16.66	17.46	17.43	18.26	19.20	19.36	20.15	20.13	20.95	21.89
	4H	16.95	17.67	17.73	18.47	19.44	19.90	20.62	20.68	21.42	22.39
	6H	17.09	17.72	17.89	18.54	19.52	20.28	20.91	21.08	21.73	22.71
	8H	17.10	17.69	17.91	18.50	19.50	20.39	20.98	21.20	21.79	22.79
	12H	17.08	17.61	17.91	18.45	19.44	20.46	20.99	21.29	21.83	22.83
8H	4H	17.43	18.01	18.23	18.83	19.82	20.04	20.63	20.85	21.44	22.44
	6H	17.70	18.18	18.53	19.04	20.04	20.49	20.98	21.33	21.84	22.83
	8H	17.74	18.17	18.59	19.03	20.04	20.65	21.08	21.49	21.93	22.94
	12H	17.74	18.12	18.59	18.97	20.03	20.76	21.14	21.61	21.99	23.05
12H	4H	17.45	17.97	18.27	18.81	19.81	20.02	20.55	20.85	21.38	22.38
	6H	17.76	18.19	18.61	19.05	20.06	20.49	20.92	21.34	21.78	22.79
	8H	17.84	18.22	18.69	19.07	20.13	20.67	21.05	21.51	21.89	22.96