

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: P934052

Luminaire Tested: SQ4-FA-025U-100D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

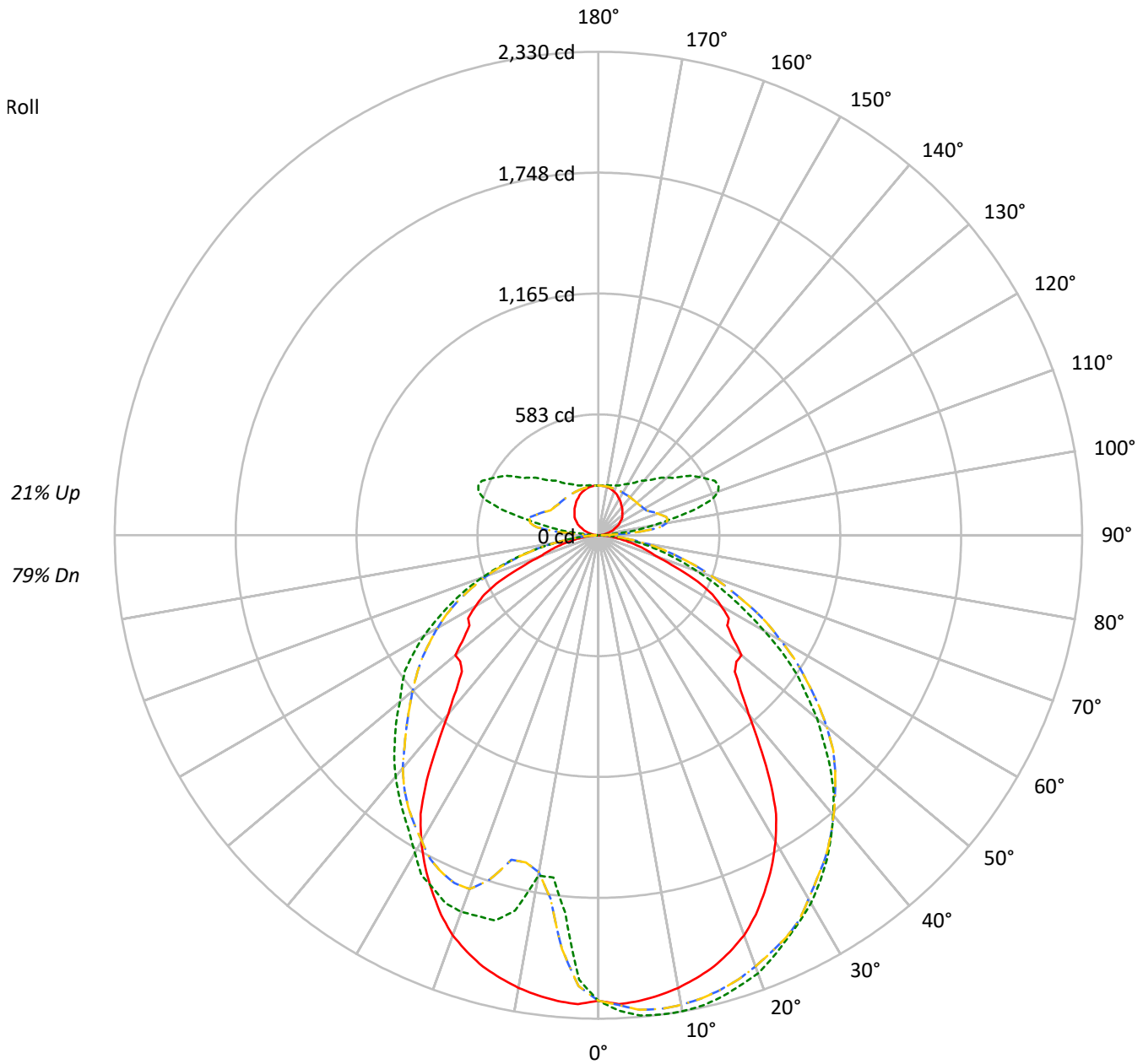
Test Method: LM-79-2019  
Report Number: P934052  
REPORT IS A COMBINATION OF REPORTS P933684 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7370.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 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): 77.6  
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79				79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67				67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56				56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47				47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41				41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35				35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24				24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22				22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20				20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	10406	10406	10406	10406
5°	10484	10504	10484	8260
10°	10413	10347	10413	7398
15°	10300	10123	10300	8453
20°	10085	9858	10085	8471
25°	9644	9470	9644	8291
30°	9074	9148	9074	7897
35°	8089	8742	8089	7464
40°	6741	8263	6741	7137
45°	6023	7702	6023	6760
50°	6399	7034	6399	6383
55°	6021	6314	6021	6165
60°	6206	5362	6206	5646
65°	5626	4433	5626	4955
70°	3895	3533	3895	4153
75°	3417	2612	3417	3127
80°	2752	1727	2752	1880
85°	1584	915	1584	777

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 9231 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.5	2.7
10°-20°	574.8	7.8
20°-30°	888.6	12.1
30°-40°	1060.8	14.4
40°-50°	1067.0	14.5
50°-60°	928.4	12.6
60°-70°	658.3	8.9
70°-80°	348.3	4.7
80°-90°	87.7	1.2
90°-100°	116.8	1.6
100°-110°	307.2	4.2
110°-120°	318.5	4.3
120°-130°	255.5	3.5
130°-140°	200.4	2.7
140°-150°	153.9	2.1
150°-160°	110.8	1.5
160°-170°	67.8	0.9
170°-180°	22.9	0.3
0°-30°	1665.9	22.6
0°-40°	2726.7	37.0
0°-60°	4722.1	64.1
0°-90°	5816.3	78.9
90°-120°	742.5	10.1
90°-150°	1352.2	18.3
90°-180°	1554.0	21.1
0°-180°	7370.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2243	2243	2243	2243	2243	
5°	2254	2324	2254	1827	2254	214
15°	2152	2302	2152	1922	2152	605
25°	1895	2147	1895	1880	1895	870
35°	1441	1916	1441	1636	1441	891
45°	929	1579	929	1386	929	744
55°	758	1165	758	1137	758	696
65°	526	702	526	785	526	503
75°	200	333	200	399	200	210
85°	34	85	34	72	34	46
90°	2	6	2	6	2	3
95°	15	71	15	71	15	17
105°	55	481	55	481	55	59
115°	98	619	98	619	98	97
125°	137	493	137	493	137	121
135°	163	383	163	383	163	126
145°	189	310	189	310	189	118
155°	214	267	214	267	214	98
165°	230	249	230	249	230	65
175°	240	241	240	241	240	23
180°	240	240	240	240	240	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9
2.5°	2262.0	2262.0	2274.7	2278.9	2278.9	2272.6	2266.2	2272.6	2291.7	2298.0	2295.9
5°	2253.5	2270.4	2293.8	2298.0	2302.3	2300.1	2295.9	2300.1	2321.4	2325.6	2327.7
7.5°	2236.5	2268.3	2298.0	2304.4	2310.8	2304.4	2302.3	2306.5	2327.7	2332.0	2332.0
10°	2215.2	2259.8	2293.8	2298.0	2304.4	2298.0	2298.0	2306.5	2327.7	2332.0	2334.1
12.5°	2185.5	2247.1	2278.9	2283.2	2291.7	2289.5	2287.4	2295.9	2317.1	2321.4	2321.4
15°	2151.6	2223.7	2253.5	2257.7	2272.6	2268.3	2268.3	2276.8	2300.1	2306.5	2304.4
17.5°	2104.9	2194.0	2228.0	2234.3	2244.9	2242.9	2244.9	2253.5	2274.7	2278.9	2281.1
20°	2051.9	2153.7	2194.0	2200.4	2211.1	2211.1	2211.1	2221.7	2242.9	2251.4	2251.4
22.5°	1979.7	2111.3	2153.7	2158.0	2170.7	2170.7	2174.9	2189.8	2208.9	2211.1	2211.1
25°	1894.8	2064.6	2100.6	2113.4	2126.2	2132.5	2138.9	2147.4	2153.7	2151.6	2153.7
27.5°	1805.7	2005.2	2051.9	2060.3	2077.4	2083.7	2092.2	2094.3	2096.5	2102.8	2098.6
30°	1706.0	1922.5	1992.5	2001.0	2028.5	2032.8	2024.3	2028.5	2039.1	2043.4	2047.6
32.5°	1593.6	1799.4	1931.0	1950.0	1975.5	1962.8	1960.6	1967.0	1984.0	1984.0	1988.2
35°	1440.7	1703.9	1873.6	1890.6	1909.7	1894.8	1903.4	1905.4	1916.1	1922.5	1920.3
37.5°	1273.2	1621.1	1814.2	1827.0	1841.8	1822.7	1835.4	1841.8	1850.3	1846.1	1846.1
40°	1124.6	1491.7	1744.2	1752.7	1765.4	1750.5	1763.3	1767.6	1771.8	1767.6	1765.4
42.5°	1014.3	1349.5	1669.9	1680.5	1672.1	1682.7	1686.9	1695.4	1689.0	1680.5	1680.5
45°	929.4	1311.3	1589.3	1602.1	1589.3	1606.3	1612.7	1612.7	1593.6	1589.3	1587.2
47.5°	901.8	1234.9	1508.7	1508.7	1502.3	1523.5	1534.1	1519.3	1500.2	1493.8	1493.8
50°	899.7	1150.1	1398.3	1389.8	1419.5	1445.0	1434.4	1419.5	1404.7	1381.3	1381.3
52.5°	817.0	1046.1	1256.1	1288.0	1334.7	1349.5	1332.6	1317.7	1292.3	1281.7	1273.2
55°	757.6	937.9	1126.8	1190.4	1239.2	1258.3	1226.4	1211.6	1173.4	1167.1	1162.8
57.5°	744.8	780.8	1007.9	1088.5	1148.0	1145.8	1126.8	1099.1	1067.3	1060.9	1058.8
60°	683.3	564.4	880.6	976.0	1037.6	1031.2	1014.3	988.8	959.1	954.8	950.6
62.5°	619.6	409.5	736.3	844.5	931.5	929.4	914.5	876.3	855.1	844.5	836.0
65°	526.2	343.8	524.1	702.4	827.6	831.7	799.9	772.4	749.0	736.3	734.2
67.5°	401.0	280.1	354.4	585.6	727.8	723.6	683.3	670.5	640.8	634.5	621.7
70°	297.0	186.7	246.1	475.3	630.2	619.6	587.8	572.9	545.3	530.5	522.0
72.5°	246.1	150.6	180.4	369.2	530.5	517.8	490.2	473.2	449.8	437.1	428.6
75°	199.5	159.2	138.0	273.7	430.7	422.3	396.8	379.8	360.7	343.8	345.9
77.5°	146.4	148.6	110.3	201.6	341.6	328.9	314.1	292.9	284.3	267.4	267.4
80°	110.3	116.7	82.8	138.0	246.1	246.1	233.4	218.6	203.7	195.2	195.2
82.5°	74.3	74.3	61.5	87.0	167.7	161.2	152.8	148.6	140.0	135.8	135.8
85°	34.0	42.4	38.2	53.1	91.2	95.5	95.5	91.2	89.1	84.9	87.0
87.5°	10.6	19.1	23.4	29.7	46.7	48.8	50.9	50.9	50.9	53.1	53.1
90°	1.6	2.9	4.2	4.5	7.1	10.5	12.2	10.8	8.1	6.1	6.1
92.5°	6.4	17.3	28.3	31.1	43.7	60.5	68.8	60.3	43.4	30.6	29.4
95°	15.4	35.4	55.5	60.5	107.4	169.9	201.2	179.6	136.3	103.7	100.1
97.5°	26.7	44.4	62.0	66.4	144.6	248.9	301.1	287.5	260.1	239.5	232.5
100°	35.4	51.4	67.4	71.4	158.2	273.9	331.8	332.8	334.9	336.4	328.0
102.5°	42.8	57.7	72.7	76.4	164.5	281.9	340.6	358.0	392.8	419.0	411.9
105°	55.3	68.0	80.7	83.8	169.1	282.7	339.6	378.7	456.9	515.5	511.7
107.5°	68.2	80.0	91.8	94.8	169.9	270.1	320.2	374.8	483.9	565.7	566.7
110°	76.9	87.5	98.2	100.9	168.6	259.0	304.2	365.1	487.1	578.6	582.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	85.4	95.6	105.7	108.2	168.7	249.3	289.6	352.0	476.7	570.4	576.6
115°	98.3	107.6	117.0	119.3	170.2	238.1	272.0	332.1	452.4	542.6	551.1
117.5°	111.0	119.5	128.0	130.2	173.4	231.1	259.9	314.2	422.7	504.1	513.6
120°	118.4	126.4	134.4	136.4	176.0	228.8	255.1	304.7	403.8	478.2	487.3
122.5°	125.6	133.7	141.8	143.8	179.7	227.5	251.4	296.1	385.4	452.3	461.4
125°	136.8	144.1	151.4	153.3	184.7	226.5	247.4	285.3	361.2	418.0	426.4
127.5°	145.7	153.1	160.6	162.4	189.7	225.9	244.0	276.6	341.8	390.6	397.6
130°	150.6	158.6	166.5	168.5	193.3	226.3	242.7	271.7	329.7	373.2	379.7
132.5°	155.5	163.6	171.5	173.5	196.3	226.5	241.6	267.6	319.4	358.4	364.2
135°	162.9	170.2	177.5	179.4	199.5	226.3	239.7	261.5	304.9	337.5	342.5
137.5°	170.5	177.7	184.9	186.8	204.3	227.7	239.4	257.8	294.5	322.0	326.1
140°	176.7	183.4	190.1	191.8	207.3	227.9	238.3	254.1	285.9	309.6	313.5
142.5°	181.6	187.7	193.9	195.5	209.7	228.8	238.3	252.2	280.1	301.0	304.3
145°	189.0	194.4	199.7	201.1	213.0	228.8	236.6	248.0	270.9	288.0	290.4
147.5°	196.4	201.6	206.9	208.1	217.6	230.3	236.6	245.6	263.5	277.0	279.0
150°	201.2	206.0	210.6	211.8	220.1	231.1	236.6	244.2	259.4	270.7	272.4
152.5°	206.2	209.7	213.4	214.2	221.7	231.7	236.6	243.1	256.0	265.7	267.0
155°	213.6	216.2	218.9	219.5	225.2	232.9	236.6	241.8	252.1	259.8	260.6
157.5°	219.1	221.6	224.2	224.8	228.8	234.0	236.6	240.7	248.6	254.6	255.2
160°	222.8	224.8	226.8	227.2	230.4	234.6	236.6	240.1	246.9	252.1	252.4
162.5°	226.4	228.0	229.4	229.8	232.1	235.1	236.6	239.5	245.3	249.7	250.0
165°	230.5	231.9	233.3	233.6	234.6	236.0	236.6	238.7	242.8	246.0	246.3
167.5°	234.2	234.9	235.5	235.7	236.6	237.7	238.3	239.6	242.3	244.4	244.5
170°	236.6	237.3	237.9	238.1	238.2	238.3	238.3	239.6	242.3	244.4	244.4
172.5°	237.9	238.1	238.3	238.3	238.3	238.3	238.3	239.3	241.5	243.1	242.9
175°	239.7	239.7	239.7	239.7	239.2	238.6	238.3	238.9	240.3	241.3	241.3
177.5°	239.7	239.7	239.7	239.7	239.3	238.8	238.6	239.1	240.2	241.0	240.8
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9
2.5°	2300.1	2293.8	2300.1	2295.9	2298.0	2291.7	2272.6	2266.2	2272.6	2278.9	2278.9
5°	2327.7	2323.5	2327.7	2327.7	2325.6	2321.4	2300.1	2295.9	2300.1	2302.3	2298.0
7.5°	2336.2	2329.8	2336.2	2332.0	2332.0	2327.7	2306.5	2302.3	2304.4	2310.8	2304.4
10°	2336.2	2329.8	2336.2	2334.1	2332.0	2327.7	2306.5	2298.0	2298.0	2304.4	2298.0
12.5°	2325.6	2321.4	2325.6	2321.4	2321.4	2317.1	2295.9	2287.4	2289.5	2291.7	2283.2
15°	2308.6	2302.3	2308.6	2304.4	2306.5	2300.1	2276.8	2268.3	2268.3	2272.6	2257.7
17.5°	2283.2	2274.7	2283.2	2281.1	2278.9	2274.7	2253.5	2244.9	2242.9	2244.9	2234.3
20°	2253.5	2247.1	2253.5	2251.4	2251.4	2242.9	2221.7	2211.1	2211.1	2211.1	2200.4
22.5°	2206.8	2200.4	2206.8	2211.1	2211.1	2208.9	2189.8	2174.9	2170.7	2170.7	2158.0
25°	2153.7	2147.4	2153.7	2153.7	2151.6	2153.7	2147.4	2138.9	2132.5	2126.2	2113.4
27.5°	2102.8	2098.6	2102.8	2098.6	2102.8	2096.5	2094.3	2092.2	2083.7	2077.4	2060.3
30°	2051.9	2047.6	2051.9	2047.6	2043.4	2039.1	2028.5	2024.3	2032.8	2028.5	2001.0
32.5°	1988.2	1984.0	1988.2	1988.2	1984.0	1984.0	1967.0	1960.6	1962.8	1975.5	1950.0
35°	1922.5	1916.1	1922.5	1920.3	1922.5	1916.1	1905.4	1903.4	1894.8	1909.7	1890.6
37.5°	1846.1	1839.7	1846.1	1846.1	1846.1	1850.3	1841.8	1835.4	1822.7	1841.8	1827.0
40°	1767.6	1759.1	1767.6	1765.4	1767.6	1771.8	1767.6	1763.3	1750.5	1765.4	1752.7
42.5°	1678.4	1676.3	1678.4	1680.5	1680.5	1689.0	1695.4	1686.9	1682.7	1672.1	1680.5
45°	1583.0	1578.7	1583.0	1587.2	1589.3	1593.6	1612.7	1612.7	1606.3	1589.3	1602.1
47.5°	1481.1	1470.5	1481.1	1493.8	1493.8	1500.2	1519.3	1534.1	1523.5	1502.3	1508.7
50°	1372.9	1375.0	1372.9	1381.3	1381.3	1404.7	1419.5	1434.4	1445.0	1419.5	1389.8
52.5°	1266.8	1264.6	1266.8	1273.2	1281.7	1292.3	1317.7	1332.6	1349.5	1334.7	1288.0
55°	1160.7	1164.9	1160.7	1162.8	1167.1	1173.4	1211.6	1226.4	1258.3	1239.2	1190.4
57.5°	1054.6	1048.2	1054.6	1058.8	1060.9	1067.3	1099.1	1126.8	1145.8	1148.0	1088.5
60°	931.5	923.0	931.5	950.6	954.8	959.1	988.8	1014.3	1031.2	1037.6	976.0
62.5°	823.3	808.5	823.3	836.0	844.5	855.1	876.3	914.5	929.4	931.5	844.5
65°	708.7	702.4	708.7	734.2	736.3	749.0	772.4	799.9	831.7	827.6	702.4
67.5°	604.7	604.7	604.7	621.7	634.5	640.8	670.5	683.3	723.6	727.8	585.6
70°	509.3	507.2	509.3	522.0	530.5	545.3	572.9	587.8	619.6	630.2	475.3
72.5°	418.0	415.9	418.0	428.6	437.1	449.8	473.2	490.2	517.8	530.5	369.2
75°	337.4	333.2	337.4	345.9	343.8	360.7	379.8	396.8	422.3	430.7	273.7
77.5°	258.9	258.9	258.9	267.4	267.4	284.3	292.9	314.1	328.9	341.6	201.6
80°	193.1	191.0	193.1	195.2	195.2	203.7	218.6	233.4	246.1	246.1	138.0
82.5°	135.8	131.5	135.8	135.8	135.8	140.0	148.6	152.8	161.2	167.7	87.0
85°	84.9	84.9	84.9	87.0	84.9	89.1	91.2	95.5	95.5	91.2	53.1
87.5°	55.2	53.1	55.2	53.1	53.1	50.9	50.9	50.9	48.8	46.7	29.7
90°	6.1	6.1	6.1	6.1	6.1	8.1	10.8	12.2	10.5	7.1	4.5
92.5°	24.5	19.6	24.5	29.4	30.6	43.4	60.3	68.8	60.5	43.7	31.1
95°	85.4	70.6	85.4	100.1	103.7	136.3	179.6	201.2	169.9	107.4	60.5
97.5°	204.4	176.4	204.4	232.5	239.5	260.1	287.5	301.1	248.9	144.6	66.4
100°	294.6	261.2	294.6	328.0	336.4	334.9	332.8	331.8	273.9	158.2	71.4
102.5°	383.3	354.7	383.3	411.9	419.0	392.8	358.0	340.6	281.9	164.5	76.4
105°	496.3	480.9	496.3	511.7	515.5	456.9	378.7	339.6	282.7	169.1	83.8
107.5°	570.4	574.1	570.4	566.7	565.7	483.9	374.8	320.2	270.1	169.9	94.8
110°	598.6	614.6	598.6	582.6	578.6	487.1	365.1	304.2	259.0	168.6	100.9





TEST NUMBER: P934052

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	601.1	625.7	601.1	576.6	570.4	476.7	352.0	289.6	249.3	168.7	108.2
115°	585.2	619.3	585.2	551.1	542.6	452.4	332.1	272.0	238.1	170.2	119.3
117.5°	551.4	589.2	551.4	513.6	504.1	422.7	314.2	259.9	231.1	173.4	130.2
120°	524.1	560.9	524.1	487.3	478.2	403.8	304.7	255.1	228.8	176.0	136.4
122.5°	497.6	533.8	497.6	461.4	452.3	385.4	296.1	251.4	227.5	179.7	143.8
125°	459.8	493.2	459.8	426.4	418.0	361.2	285.3	247.4	226.5	184.7	153.3
127.5°	425.8	453.9	425.8	397.6	390.6	341.8	276.6	244.0	225.9	189.7	162.4
130°	405.7	431.7	405.7	379.7	373.2	329.7	271.7	242.7	226.3	193.3	168.5
132.5°	387.5	410.8	387.5	364.2	358.4	319.4	267.6	241.6	226.5	196.3	173.5
135°	362.6	382.6	362.6	342.5	337.5	304.9	261.5	239.7	226.3	199.5	179.4
137.5°	342.6	359.0	342.6	326.1	322.0	294.5	257.8	239.4	227.7	204.3	186.8
140°	328.8	344.2	328.8	313.5	309.6	285.9	254.1	238.3	227.9	207.3	191.8
142.5°	317.5	330.7	317.5	304.3	301.0	280.1	252.2	238.3	228.8	209.7	195.5
145°	300.5	310.4	300.5	290.4	288.0	270.9	248.0	236.6	228.8	213.0	201.1
147.5°	287.3	295.7	287.3	279.0	277.0	263.5	245.6	236.6	230.3	217.6	208.1
150°	279.1	285.9	279.1	272.4	270.7	259.4	244.2	236.6	231.1	220.1	211.8
152.5°	272.1	277.1	272.1	267.0	265.7	256.0	243.1	236.6	231.7	221.7	214.2
155°	263.9	267.3	263.9	260.6	259.8	252.1	241.8	236.6	232.9	225.2	219.5
157.5°	257.6	259.9	257.6	255.2	254.6	248.6	240.7	236.6	234.0	228.8	224.8
160°	253.7	255.1	253.7	252.4	252.1	246.9	240.1	236.6	234.6	230.4	227.2
162.5°	251.3	252.5	251.3	250.0	249.7	245.3	239.5	236.6	235.1	232.1	229.8
165°	247.6	249.0	247.6	246.3	246.0	242.8	238.7	236.6	236.0	234.6	233.6
167.5°	245.1	245.6	245.1	244.5	244.4	242.3	239.6	238.3	237.7	236.6	235.7
170°	244.4	244.4	244.4	244.4	244.4	242.3	239.6	238.3	238.3	238.2	238.1
172.5°	242.4	241.9	242.4	242.9	243.1	241.5	239.3	238.3	238.3	238.3	238.3
175°	241.3	241.3	241.3	241.3	241.3	240.3	238.9	238.3	238.6	239.2	239.7
177.5°	240.3	239.7	240.3	240.8	241.0	240.2	239.1	238.6	238.8	239.3	239.7
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



TEST NUMBER: P934052

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9
2.5°	2274.7	2262.0	2262.0	2240.8	2232.3	2225.9	2215.2	2183.4	2174.9	2166.5	2179.2
5°	2293.8	2270.4	2253.5	2215.2	2183.4	2170.7	2130.4	2054.0	2003.1	1964.9	1943.7
7.5°	2298.0	2268.3	2236.5	2177.1	2100.6	2066.8	1943.7	1803.6	1765.4	1731.5	1710.2
10°	2293.8	2259.8	2215.2	2126.2	1945.7	1886.4	1763.3	1672.1	1648.7	1642.4	1648.7
12.5°	2278.9	2247.1	2185.5	2037.1	1784.5	1744.2	1672.1	1619.0	1614.8	1625.4	1682.7
15°	2253.5	2223.7	2151.6	1918.2	1695.4	1665.7	1614.8	1595.6	1619.0	1693.3	1865.1
17.5°	2228.0	2194.0	2104.9	1801.5	1627.5	1606.3	1570.2	1608.4	1739.9	1839.7	1897.0
20°	2194.0	2153.7	2051.9	1716.7	1578.7	1559.6	1542.6	1714.5	1814.2	1850.3	1882.2
22.5°	2153.7	2111.3	1979.7	1657.2	1527.8	1512.9	1523.5	1773.9	1814.2	1839.7	1867.3
25°	2100.6	2064.6	1894.8	1610.5	1487.5	1470.5	1510.8	1767.6	1790.9	1797.3	1852.4
27.5°	2051.9	2005.2	1805.7	1568.1	1438.7	1432.3	1521.4	1739.9	1757.0	1763.3	1822.7
30°	1992.5	1922.5	1706.0	1523.5	1387.7	1385.6	1523.5	1706.0	1701.8	1718.7	1778.2
32.5°	1931.0	1799.4	1593.6	1468.4	1338.9	1336.8	1508.7	1655.1	1650.8	1674.2	1718.7
35°	1873.6	1703.9	1440.7	1404.7	1277.4	1279.5	1472.6	1595.6	1597.8	1619.0	1646.6
37.5°	1814.2	1621.1	1273.2	1334.7	1218.0	1218.0	1423.8	1540.5	1536.3	1542.6	1580.8
40°	1744.2	1491.7	1124.6	1243.4	1162.8	1156.4	1364.4	1481.1	1466.2	1464.1	1517.2
42.5°	1669.9	1349.5	1014.3	1122.5	1099.1	1090.6	1292.3	1408.9	1381.3	1387.7	1455.6
45°	1589.3	1311.3	929.4	948.5	1033.4	1027.0	1213.7	1326.2	1307.1	1324.1	1394.1
47.5°	1508.7	1234.9	901.8	787.3	963.4	961.2	1126.8	1245.5	1234.9	1252.0	1326.2
50°	1398.3	1150.1	899.7	674.8	884.8	893.3	1022.8	1167.1	1167.1	1181.9	1260.4
52.5°	1256.1	1046.1	817.0	611.1	793.6	819.1	931.5	1099.1	1103.4	1118.3	1188.3
55°	1126.8	937.9	757.6	562.3	685.4	740.5	842.4	1029.1	1037.6	1052.5	1116.1
57.5°	1007.9	780.8	744.8	505.0	585.6	638.7	763.9	961.2	965.4	978.2	1039.7
60°	880.6	564.4	683.3	443.5	498.7	539.0	691.7	880.6	895.4	903.9	957.0
62.5°	736.3	409.5	619.6	401.0	456.2	464.7	632.4	804.2	823.3	829.7	861.5
65°	524.1	343.8	526.2	365.0	411.6	413.8	568.7	725.7	742.7	753.3	776.6
67.5°	354.4	280.1	401.0	331.0	377.7	379.8	507.2	634.5	657.8	666.2	681.1
70°	246.1	186.7	297.0	294.9	339.5	343.8	441.3	551.7	572.9	579.3	587.8
72.5°	180.4	150.6	246.1	265.2	299.2	303.5	373.5	458.4	479.6	485.9	490.2
75°	138.0	159.2	199.5	231.3	254.6	256.7	305.5	373.5	388.3	392.6	394.7
77.5°	110.3	148.6	146.4	186.7	208.0	203.7	239.8	288.6	301.3	301.3	301.3
80°	82.8	116.7	110.3	133.7	152.8	148.6	171.8	205.8	210.1	214.3	212.2
82.5°	61.5	74.3	74.3	84.9	101.8	97.6	114.6	133.7	133.7	133.7	138.0
85°	38.2	42.4	34.0	44.6	57.3	55.2	63.7	72.1	74.3	74.3	70.0
87.5°	23.4	19.1	10.6	16.9	25.5	25.5	29.7	31.8	29.7	29.7	29.7
90°	4.2	2.9	1.6	2.9	4.2	4.5	7.1	10.5	12.2	10.8	8.1
92.5°	28.3	17.3	6.4	17.3	28.3	31.1	43.7	60.5	68.8	60.3	43.4
95°	55.5	35.4	15.4	35.4	55.5	60.5	107.4	169.9	201.2	179.6	136.3
97.5°	62.0	44.4	26.7	44.4	62.0	66.4	144.6	248.9	301.1	287.5	260.1
100°	67.4	51.4	35.4	51.4	67.4	71.4	158.2	273.9	331.8	332.8	334.9
102.5°	72.7	57.7	42.8	57.7	72.7	76.4	164.5	281.9	340.6	358.0	392.8
105°	80.7	68.0	55.3	68.0	80.7	83.8	169.1	282.7	339.6	378.7	456.9
107.5°	91.8	80.0	68.2	80.0	91.8	94.8	169.9	270.1	320.2	374.8	483.9
110°	98.2	87.5	76.9	87.5	98.2	100.9	168.6	259.0	304.2	365.1	487.1



TEST NUMBER: P934052

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	105.7	95.6	85.4	95.6	105.7	108.2	168.7	249.3	289.6	352.0	476.7
115°	117.0	107.6	98.3	107.6	117.0	119.3	170.2	238.1	272.0	332.1	452.4
117.5°	128.0	119.5	111.0	119.5	128.0	130.2	173.4	231.1	259.9	314.2	422.7
120°	134.4	126.4	118.4	126.4	134.4	136.4	176.0	228.8	255.1	304.7	403.8
122.5°	141.8	133.7	125.6	133.7	141.8	143.8	179.7	227.5	251.4	296.1	385.4
125°	151.4	144.1	136.8	144.1	151.4	153.3	184.7	226.5	247.4	285.3	361.2
127.5°	160.6	153.1	145.7	153.1	160.6	162.4	189.7	225.9	244.0	276.6	341.8
130°	166.5	158.6	150.6	158.6	166.5	168.5	193.3	226.3	242.7	271.7	329.7
132.5°	171.5	163.6	155.5	163.6	171.5	173.5	196.3	226.5	241.6	267.6	319.4
135°	177.5	170.2	162.9	170.2	177.5	179.4	199.5	226.3	239.7	261.5	304.9
137.5°	184.9	177.7	170.5	177.7	184.9	186.8	204.3	227.7	239.4	257.8	294.5
140°	190.1	183.4	176.7	183.4	190.1	191.8	207.3	227.9	238.3	254.1	285.9
142.5°	193.9	187.7	181.6	187.7	193.9	195.5	209.7	228.8	238.3	252.2	280.1
145°	199.7	194.4	189.0	194.4	199.7	201.1	213.0	228.8	236.6	248.0	270.9
147.5°	206.9	201.6	196.4	201.6	206.9	208.1	217.6	230.3	236.6	245.6	263.5
150°	210.6	206.0	201.2	206.0	210.6	211.8	220.1	231.1	236.6	244.2	259.4
152.5°	213.4	209.7	206.2	209.7	213.4	214.2	221.7	231.7	236.6	243.1	256.0
155°	218.9	216.2	213.6	216.2	218.9	219.5	225.2	232.9	236.6	241.8	252.1
157.5°	224.2	221.6	219.1	221.6	224.2	224.8	228.8	234.0	236.6	240.7	248.6
160°	226.8	224.8	222.8	224.8	226.8	227.2	230.4	234.6	236.6	240.1	246.9
162.5°	229.4	228.0	226.4	228.0	229.4	229.8	232.1	235.1	236.6	239.5	245.3
165°	233.3	231.9	230.5	231.9	233.3	233.6	234.6	236.0	236.6	238.7	242.8
167.5°	235.5	234.9	234.2	234.9	235.5	235.7	236.6	237.7	238.3	239.6	242.3
170°	237.9	237.3	236.6	237.3	237.9	238.1	238.2	238.3	238.3	239.6	242.3
172.5°	238.3	238.1	237.9	238.1	238.3	238.3	238.3	238.3	238.3	239.3	241.5
175°	239.7	239.7	239.7	239.7	239.7	239.7	239.2	238.6	238.3	238.9	240.3
177.5°	239.7	239.7	239.7	239.7	239.7	239.7	239.3	238.8	238.6	239.1	240.2
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



TEST NUMBER: P934052  
 CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9	2242.9
2.5°	2164.3	2158.0	2166.5	2143.1	2166.5	2158.0	2164.3	2179.2	2166.5	2174.9	2183.4
5°	1899.1	1888.5	1854.5	1827.0	1854.5	1888.5	1899.1	1943.7	1964.9	2003.1	2054.0
7.5°	1697.5	1689.0	1680.5	1663.6	1680.5	1689.0	1697.5	1710.2	1731.5	1765.4	1803.6
10°	1653.0	1655.1	1667.8	1665.7	1667.8	1655.1	1653.0	1648.7	1642.4	1648.7	1672.1
12.5°	1767.6	1786.7	1856.7	1852.4	1856.7	1786.7	1767.6	1682.7	1625.4	1614.8	1619.0
15°	1899.1	1905.4	1920.3	1922.5	1920.3	1905.4	1899.1	1865.1	1693.3	1619.0	1595.6
17.5°	1911.9	1914.0	1924.6	1924.6	1924.6	1914.0	1911.9	1897.0	1839.7	1739.9	1608.4
20°	1901.3	1905.4	1926.7	1931.0	1926.7	1905.4	1901.3	1882.2	1850.3	1814.2	1714.5
22.5°	1897.0	1905.4	1922.5	1920.3	1922.5	1905.4	1897.0	1867.3	1839.7	1814.2	1773.9
25°	1875.7	1875.7	1877.9	1880.0	1877.9	1875.7	1875.7	1852.4	1797.3	1790.9	1767.6
27.5°	1831.2	1835.4	1848.2	1846.1	1848.2	1835.4	1831.2	1822.7	1763.3	1757.0	1739.9
30°	1790.9	1786.7	1776.0	1767.6	1776.0	1786.7	1790.9	1778.2	1718.7	1701.8	1706.0
32.5°	1723.0	1712.4	1701.8	1695.4	1701.8	1712.4	1723.0	1718.7	1674.2	1650.8	1655.1
35°	1642.4	1644.5	1642.4	1636.0	1642.4	1644.5	1642.4	1646.6	1619.0	1597.8	1595.6
37.5°	1585.0	1589.3	1587.2	1578.7	1587.2	1589.3	1585.0	1580.8	1542.6	1536.3	1540.5
40°	1525.6	1527.8	1525.6	1519.3	1525.6	1527.8	1525.6	1517.2	1464.1	1466.2	1481.1
42.5°	1468.4	1466.2	1459.9	1455.6	1459.9	1466.2	1468.4	1455.6	1387.7	1381.3	1408.9
45°	1402.6	1404.7	1392.0	1385.6	1392.0	1404.7	1402.6	1394.1	1324.1	1307.1	1326.2
47.5°	1336.8	1336.8	1326.2	1319.8	1326.2	1336.8	1336.8	1326.2	1252.0	1234.9	1245.5
50°	1266.8	1264.6	1249.8	1247.7	1249.8	1264.6	1266.8	1260.4	1181.9	1167.1	1167.1
52.5°	1186.1	1186.1	1188.3	1192.5	1188.3	1186.1	1186.1	1188.3	1118.3	1103.4	1099.1
55°	1116.1	1118.3	1133.1	1137.4	1133.1	1118.3	1116.1	1116.1	1052.5	1037.6	1029.1
57.5°	1044.0	1044.0	1054.6	1054.6	1054.6	1044.0	1044.0	1039.7	978.2	965.4	961.2
60°	961.2	965.4	974.0	971.9	974.0	965.4	961.2	957.0	903.9	895.4	880.6
62.5°	874.2	878.5	880.6	876.3	880.6	878.5	874.2	861.5	829.7	823.3	804.2
65°	783.0	787.3	789.3	785.1	789.3	787.3	783.0	776.6	753.3	742.7	725.7
67.5°	689.6	687.5	685.4	693.9	685.4	687.5	689.6	681.1	666.2	657.8	634.5
70°	594.1	594.1	592.0	596.2	592.0	594.1	594.1	587.8	579.3	572.9	551.7
72.5°	492.3	490.2	498.7	492.3	498.7	490.2	492.3	490.2	485.9	479.6	458.4
75°	392.6	396.8	392.6	398.9	392.6	396.8	392.6	394.7	392.6	388.3	373.5
77.5°	299.2	303.5	299.2	299.2	299.2	303.5	299.2	301.3	301.3	301.3	288.6
80°	212.2	210.1	210.1	208.0	210.1	210.1	212.2	212.2	214.3	210.1	205.8
82.5°	135.8	133.7	133.7	138.0	133.7	133.7	135.8	138.0	133.7	133.7	133.7
85°	74.3	76.4	72.1	72.1	72.1	76.4	74.3	70.0	74.3	74.3	72.1
87.5°	27.6	25.5	25.5	25.5	25.5	25.5	27.6	29.7	29.7	29.7	31.8
90°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.1	10.8	12.2	10.5
92.5°	30.6	29.4	24.5	19.6	24.5	29.4	30.6	43.4	60.3	68.8	60.5
95°	103.7	100.1	85.4	70.6	85.4	100.1	103.7	136.3	179.6	201.2	169.9
97.5°	239.5	232.5	204.4	176.4	204.4	232.5	239.5	260.1	287.5	301.1	248.9
100°	336.4	328.0	294.6	261.2	294.6	328.0	336.4	334.9	332.8	331.8	273.9
102.5°	419.0	411.9	383.3	354.7	383.3	411.9	419.0	392.8	358.0	340.6	281.9
105°	515.5	511.7	496.3	480.9	496.3	511.7	515.5	456.9	378.7	339.6	282.7
107.5°	565.7	566.7	570.4	574.1	570.4	566.7	565.7	483.9	374.8	320.2	270.1
110°	578.6	582.6	598.6	614.6	598.6	582.6	578.6	487.1	365.1	304.2	259.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	570.4	576.6	601.1	625.7	601.1	576.6	570.4	476.7	352.0	289.6	249.3
115°	542.6	551.1	585.2	619.3	585.2	551.1	542.6	452.4	332.1	272.0	238.1
117.5°	504.1	513.6	551.4	589.2	551.4	513.6	504.1	422.7	314.2	259.9	231.1
120°	478.2	487.3	524.1	560.9	524.1	487.3	478.2	403.8	304.7	255.1	228.8
122.5°	452.3	461.4	497.6	533.8	497.6	461.4	452.3	385.4	296.1	251.4	227.5
125°	418.0	426.4	459.8	493.2	459.8	426.4	418.0	361.2	285.3	247.4	226.5
127.5°	390.6	397.6	425.8	453.9	425.8	397.6	390.6	341.8	276.6	244.0	225.9
130°	373.2	379.7	405.7	431.7	405.7	379.7	373.2	329.7	271.7	242.7	226.3
132.5°	358.4	364.2	387.5	410.8	387.5	364.2	358.4	319.4	267.6	241.6	226.5
135°	337.5	342.5	362.6	382.6	362.6	342.5	337.5	304.9	261.5	239.7	226.3
137.5°	322.0	326.1	342.6	359.0	342.6	326.1	322.0	294.5	257.8	239.4	227.7
140°	309.6	313.5	328.8	344.2	328.8	313.5	309.6	285.9	254.1	238.3	227.9
142.5°	301.0	304.3	317.5	330.7	317.5	304.3	301.0	280.1	252.2	238.3	228.8
145°	288.0	290.4	300.5	310.4	300.5	290.4	288.0	270.9	248.0	236.6	228.8
147.5°	277.0	279.0	287.3	295.7	287.3	279.0	277.0	263.5	245.6	236.6	230.3
150°	270.7	272.4	279.1	285.9	279.1	272.4	270.7	259.4	244.2	236.6	231.1
152.5°	265.7	267.0	272.1	277.1	272.1	267.0	265.7	256.0	243.1	236.6	231.7
155°	259.8	260.6	263.9	267.3	263.9	260.6	259.8	252.1	241.8	236.6	232.9
157.5°	254.6	255.2	257.6	259.9	257.6	255.2	254.6	248.6	240.7	236.6	234.0
160°	252.1	252.4	253.7	255.1	253.7	252.4	252.1	246.9	240.1	236.6	234.6
162.5°	249.7	250.0	251.3	252.5	251.3	250.0	249.7	245.3	239.5	236.6	235.1
165°	246.0	246.3	247.6	249.0	247.6	246.3	246.0	242.8	238.7	236.6	236.0
167.5°	244.4	244.5	245.1	245.6	245.1	244.5	244.4	242.3	239.6	238.3	237.7
170°	244.4	244.4	244.4	244.4	244.4	244.4	244.4	242.3	239.6	238.3	238.3
172.5°	243.1	242.9	242.4	241.9	242.4	242.9	243.1	241.5	239.3	238.3	238.3
175°	241.3	241.3	241.3	241.3	241.3	241.3	241.3	240.3	238.9	238.3	238.6
177.5°	241.0	240.8	240.3	239.7	240.3	240.8	241.0	240.2	239.1	238.6	238.8
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2242.9	2242.9	2242.9	2242.9	2242.9
2.5°	2215.2	2225.9	2232.3	2240.8	2262.0
5°	2130.4	2170.7	2183.4	2215.2	2253.5
7.5°	1943.7	2066.8	2100.6	2177.1	2236.5
10°	1763.3	1886.4	1945.7	2126.2	2215.2
12.5°	1672.1	1744.2	1784.5	2037.1	2185.5
15°	1614.8	1665.7	1695.4	1918.2	2151.6
17.5°	1570.2	1606.3	1627.5	1801.5	2104.9
20°	1542.6	1559.6	1578.7	1716.7	2051.9
22.5°	1523.5	1512.9	1527.8	1657.2	1979.7
25°	1510.8	1470.5	1487.5	1610.5	1894.8
27.5°	1521.4	1432.3	1438.7	1568.1	1805.7
30°	1523.5	1385.6	1387.7	1523.5	1706.0
32.5°	1508.7	1336.8	1338.9	1468.4	1593.6
35°	1472.6	1279.5	1277.4	1404.7	1440.7
37.5°	1423.8	1218.0	1218.0	1334.7	1273.2
40°	1364.4	1156.4	1162.8	1243.4	1124.6
42.5°	1292.3	1090.6	1099.1	1122.5	1014.3
45°	1213.7	1027.0	1033.4	948.5	929.4
47.5°	1126.8	961.2	963.4	787.3	901.8
50°	1022.8	893.3	884.8	674.8	899.7
52.5°	931.5	819.1	793.6	611.1	817.0
55°	842.4	740.5	685.4	562.3	757.6
57.5°	763.9	638.7	585.6	505.0	744.8
60°	691.7	539.0	498.7	443.5	683.3
62.5°	632.4	464.7	456.2	401.0	619.6
65°	568.7	413.8	411.6	365.0	526.2
67.5°	507.2	379.8	377.7	331.0	401.0
70°	441.3	343.8	339.5	294.9	297.0
72.5°	373.5	303.5	299.2	265.2	246.1
75°	305.5	256.7	254.6	231.3	199.5
77.5°	239.8	203.7	208.0	186.7	146.4
80°	171.8	148.6	152.8	133.7	110.3
82.5°	114.6	97.6	101.8	84.9	74.3
85°	63.7	55.2	57.3	44.6	34.0
87.5°	29.7	25.5	25.5	16.9	10.6
90°	7.1	4.5	4.2	2.9	1.6
92.5°	43.7	31.1	28.3	17.3	6.4
95°	107.4	60.5	55.5	35.4	15.4
97.5°	144.6	66.4	62.0	44.4	26.7
100°	158.2	71.4	67.4	51.4	35.4
102.5°	164.5	76.4	72.7	57.7	42.8
105°	169.1	83.8	80.7	68.0	55.3
107.5°	169.9	94.8	91.8	80.0	68.2
110°	168.6	100.9	98.2	87.5	76.9



TEST NUMBER: P934052

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	168.7	108.2	105.7	95.6	85.4
115°	170.2	119.3	117.0	107.6	98.3
117.5°	173.4	130.2	128.0	119.5	111.0
120°	176.0	136.4	134.4	126.4	118.4
122.5°	179.7	143.8	141.8	133.7	125.6
125°	184.7	153.3	151.4	144.1	136.8
127.5°	189.7	162.4	160.6	153.1	145.7
130°	193.3	168.5	166.5	158.6	150.6
132.5°	196.3	173.5	171.5	163.6	155.5
135°	199.5	179.4	177.5	170.2	162.9
137.5°	204.3	186.8	184.9	177.7	170.5
140°	207.3	191.8	190.1	183.4	176.7
142.5°	209.7	195.5	193.9	187.7	181.6
145°	213.0	201.1	199.7	194.4	189.0
147.5°	217.6	208.1	206.9	201.6	196.4
150°	220.1	211.8	210.6	206.0	201.2
152.5°	221.7	214.2	213.4	209.7	206.2
155°	225.2	219.5	218.9	216.2	213.6
157.5°	228.8	224.8	224.2	221.6	219.1
160°	230.4	227.2	226.8	224.8	222.8
162.5°	232.1	229.8	229.4	228.0	226.4
165°	234.6	233.6	233.3	231.9	230.5
167.5°	236.6	235.7	235.5	234.9	234.2
170°	238.2	238.1	237.9	237.3	236.6
172.5°	238.3	238.3	238.3	238.1	237.9
175°	239.2	239.7	239.7	239.7	239.7
177.5°	239.3	239.7	239.7	239.7	239.7
180°	239.7	239.7	239.7	239.7	239.7



TEST NUMBER: P934052  
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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	15.28	16.48	15.94	17.16	17.94	18.12	19.32	18.78	19.99	20.78
	3H	15.78	16.86	16.46	17.55	18.37	19.49	20.57	20.17	21.26	22.08
	4H	15.99	17.00	16.68	17.70	18.54	19.95	20.97	20.65	21.67	22.50
	6H	16.12	17.06	16.83	17.77	18.62	20.26	21.19	20.96	21.90	22.75
	8H	16.13	17.03	16.85	17.76	18.61	20.34	21.23	21.06	21.96	22.82
	12H	16.12	16.97	16.84	17.69	18.57	20.39	21.24	21.12	21.97	22.85
4H	2H	16.35	17.37	17.05	18.07	18.90	18.57	19.58	19.26	20.28	21.12
	3H	17.41	18.26	18.12	19.00	19.85	20.11	20.95	20.82	21.69	22.54
	4H	17.70	18.47	18.43	19.21	20.09	20.65	21.42	21.38	22.16	23.04
	6H	17.85	18.51	18.59	19.28	20.17	21.04	21.70	21.78	22.47	23.36
	8H	17.86	18.48	18.61	19.24	20.15	21.15	21.77	21.90	22.53	23.44
	12H	17.84	18.40	18.61	19.19	20.10	21.23	21.78	22.00	22.57	23.48
8H	4H	18.18	18.81	18.93	19.57	20.47	20.80	21.42	21.55	22.18	23.09
	6H	18.46	18.98	19.24	19.78	20.68	21.25	21.77	22.03	22.57	23.48
	8H	18.50	18.96	19.30	19.77	20.69	21.41	21.87	22.20	22.67	23.59
	12H	18.50	18.91	19.30	19.70	20.68	21.52	21.93	22.32	22.72	23.70
12H	4H	18.21	18.77	18.98	19.55	20.46	20.78	21.34	21.55	22.12	23.03
	6H	18.52	18.98	19.32	19.79	20.71	21.25	21.71	22.05	22.52	23.44
	8H	18.61	19.01	19.40	19.80	20.78	21.43	21.84	22.23	22.63	23.61