

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: P934020

Luminaire Tested: SQ4-FA-025U-100D-840-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934020
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-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

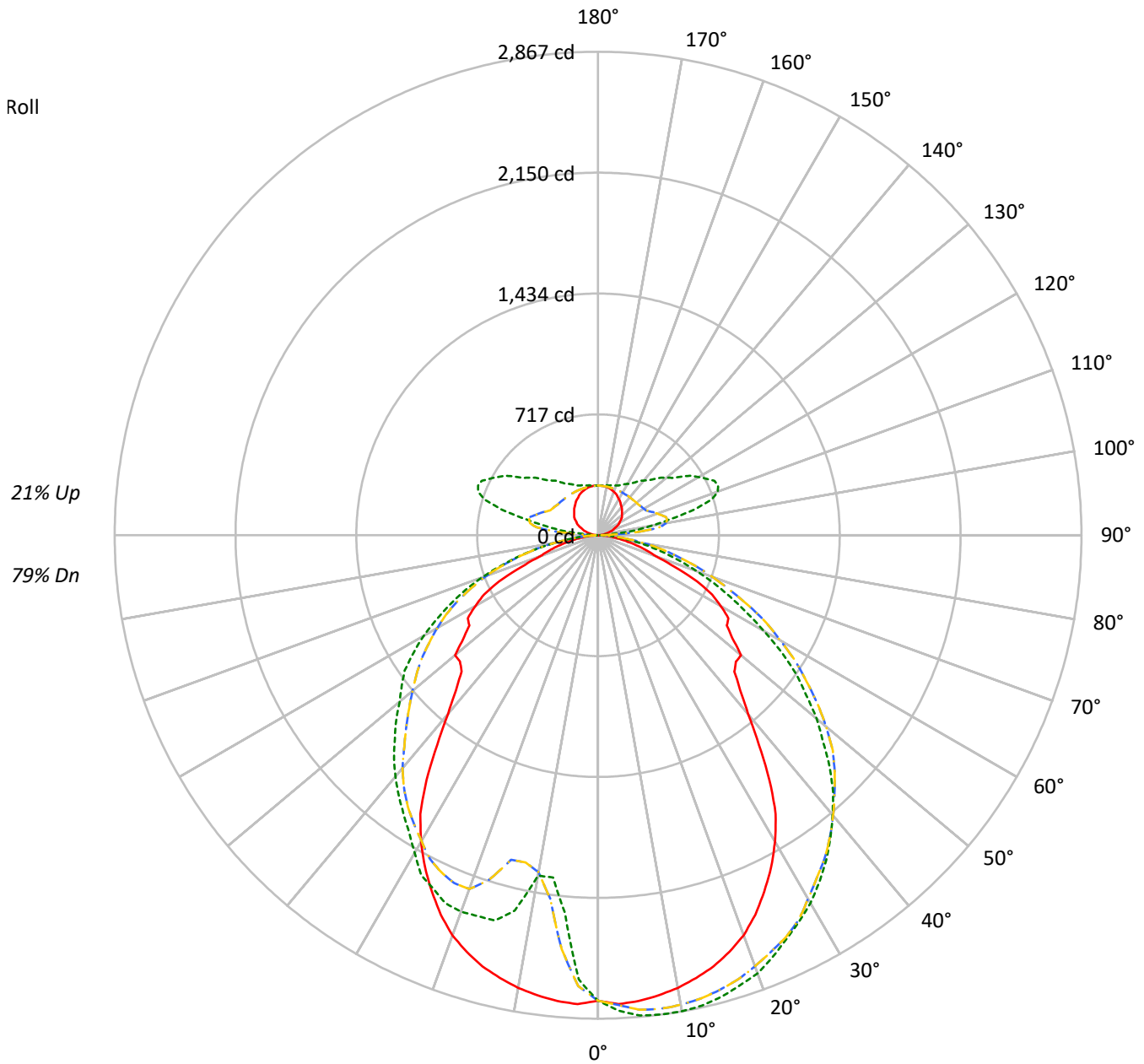
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9067.9 lumens
Efficiency: N/A
Efficacy: 116.9 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				
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°	12803	12803	12803	12803
5°	12899	12924	12899	10163
10°	12813	12731	12813	9102
15°	12673	12455	12673	10401
20°	12408	12129	12408	10422
25°	11866	11652	11866	10201
30°	11165	11256	11165	9717
35°	9953	10756	9953	9184
40°	8294	10167	8294	8781
45°	7410	9477	7410	8318
50°	7873	8655	7873	7854
55°	7407	7768	7407	7585
60°	7636	6598	7636	6947
65°	6922	5454	6922	6097
70°	4794	4347	4794	5110
75°	4203	3213	4203	3847
80°	3388	2123	3388	2313
85°	1947	1125	1947	956

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11357 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	2.7
10°-20°	707.3	7.8
20°-30°	1093.3	12.1
30°-40°	1305.2	14.4
40°-50°	1312.8	14.5
50°-60°	1142.3	12.6
60°-70°	809.9	8.9
70°-80°	428.5	4.7
80°-90°	107.8	1.2
90°-100°	143.7	1.6
100°-110°	377.9	4.2
110°-120°	391.9	4.3
120°-130°	314.3	3.5
130°-140°	246.6	2.7
140°-150°	189.3	2.1
150°-160°	136.3	1.5
160°-170°	83.4	0.9
170°-180°	28.2	0.3
0°-30°	2049.7	22.6
0°-40°	3354.8	37.0
0°-60°	5810.0	64.1
0°-90°	7156.2	78.9
90°-120°	913.5	10.1
90°-150°	1663.7	18.3
90°-180°	1912.0	21.1
0°-180°	9067.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2760	2760	2760	2760	2760	
5°	2773	2859	2773	2248	2773	263
15°	2647	2833	2647	2365	2647	745
25°	2331	2642	2331	2313	2331	1070
35°	1773	2358	1773	2013	1773	1097
45°	1144	1942	1144	1705	1144	916
55°	932	1433	932	1399	932	856
65°	647	864	647	966	647	619
75°	245	410	245	491	245	258
85°	42	104	42	89	42	56
90°	2	8	2	8	2	3
95°	19	87	19	87	19	21
105°	68	592	68	592	68	72
115°	121	762	121	762	121	119
125°	168	607	168	607	168	149
135°	200	471	200	471	200	155
145°	233	382	233	382	233	146
155°	263	329	263	329	263	121
165°	284	306	284	306	284	80
175°	295	297	295	297	295	28
180°	295	295	295	295	295	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2783.1	2783.1	2798.7	2803.9	2803.9	2796.1	2788.3	2796.1	2819.7	2827.5	2824.9
5°	2772.6	2793.5	2822.2	2827.5	2832.7	2830.0	2824.9	2830.0	2856.2	2861.4	2864.0
7.5°	2751.8	2790.9	2827.5	2835.3	2843.2	2835.3	2832.7	2837.9	2864.0	2869.3	2869.3
10°	2725.6	2780.4	2822.2	2827.5	2835.3	2827.5	2827.5	2837.9	2864.0	2869.3	2871.8
12.5°	2689.0	2764.8	2803.9	2809.2	2819.7	2817.0	2814.4	2824.9	2851.0	2856.2	2856.2
15°	2647.3	2736.1	2772.6	2777.9	2796.1	2790.9	2790.9	2801.4	2830.0	2837.9	2835.3
17.5°	2589.8	2699.5	2741.3	2749.1	2762.2	2759.6	2762.2	2772.6	2798.7	2803.9	2806.6
20°	2524.6	2649.9	2699.5	2707.3	2720.5	2720.5	2720.5	2733.5	2759.6	2770.1	2770.1
22.5°	2435.8	2597.7	2649.9	2655.2	2670.8	2670.8	2676.0	2694.3	2717.8	2720.5	2720.5
25°	2331.4	2540.2	2584.6	2600.3	2616.0	2623.8	2631.6	2642.1	2649.9	2647.3	2649.9
27.5°	2221.7	2467.1	2524.6	2535.0	2556.0	2563.8	2574.2	2576.8	2579.5	2587.3	2582.0
30°	2099.0	2365.4	2451.5	2462.0	2495.9	2501.1	2490.6	2495.9	2508.9	2514.2	2519.4
32.5°	1960.7	2213.9	2375.8	2399.3	2430.6	2415.0	2412.3	2420.2	2441.1	2441.1	2446.3
35°	1772.7	2096.4	2305.3	2326.1	2349.7	2331.4	2341.9	2344.4	2357.6	2365.4	2362.7
37.5°	1566.5	1994.6	2232.2	2247.9	2266.2	2242.7	2258.3	2266.2	2276.5	2271.4	2271.4
40°	1383.7	1835.4	2146.0	2156.5	2172.1	2153.8	2169.5	2174.8	2180.0	2174.8	2172.1
42.5°	1247.9	1660.4	2054.6	2067.7	2057.3	2070.4	2075.6	2086.0	2078.2	2067.7	2067.7
45°	1143.5	1613.4	1955.4	1971.2	1955.4	1976.4	1984.2	1984.2	1960.7	1955.4	1952.9
47.5°	1109.6	1519.4	1856.3	1856.3	1848.4	1874.5	1887.6	1869.3	1845.8	1838.0	1838.0
50°	1107.0	1415.0	1720.5	1710.0	1746.6	1777.9	1764.9	1746.6	1728.3	1699.6	1699.6
52.5°	1005.2	1287.1	1545.5	1584.8	1642.2	1660.4	1639.6	1621.3	1590.0	1576.9	1566.5
55°	932.1	1154.0	1386.4	1464.6	1524.7	1548.2	1509.0	1490.8	1443.8	1436.0	1430.7
57.5°	916.4	960.7	1240.1	1339.3	1412.4	1409.8	1386.4	1352.4	1313.2	1305.3	1302.8
60°	840.7	694.5	1083.4	1200.9	1276.7	1268.8	1247.9	1216.6	1180.1	1174.8	1169.6
62.5°	762.3	503.9	905.9	1039.1	1146.1	1143.5	1125.2	1078.2	1052.1	1039.1	1028.6
65°	647.4	423.0	644.9	864.2	1018.2	1023.4	984.2	950.4	921.6	905.9	903.3
67.5°	493.4	344.6	436.0	720.5	895.5	890.3	840.7	825.0	788.4	780.6	764.9
70°	365.5	229.7	302.8	584.8	775.4	762.3	723.2	704.9	671.0	652.7	642.2
72.5°	302.8	185.3	221.9	454.3	652.7	637.1	603.1	582.2	553.5	537.8	527.4
75°	245.4	195.8	169.7	336.8	530.0	519.6	488.2	467.3	443.8	423.0	425.5
77.5°	180.1	182.8	135.8	248.0	420.3	404.7	386.4	360.3	349.9	329.0	329.0
80°	135.8	143.6	101.9	169.7	302.8	302.8	287.2	268.9	250.7	240.2	240.2
82.5°	91.4	91.4	75.7	107.0	206.3	198.4	188.0	182.8	172.3	167.1	167.1
85°	41.8	52.2	47.0	65.3	112.2	117.5	117.5	112.2	109.7	104.4	107.0
87.5°	13.0	23.5	28.8	36.6	57.4	60.1	62.6	62.6	62.6	65.3	65.3
90°	2.0	3.6	5.1	5.5	8.7	12.9	15.0	13.3	10.0	7.5	7.5
92.5°	7.9	21.3	34.9	38.2	53.7	74.4	84.7	74.2	53.4	37.6	36.2
95°	19.0	43.6	68.3	74.4	132.1	209.1	247.6	220.9	167.7	127.6	123.1
97.5°	32.9	54.6	76.3	81.7	177.9	306.3	370.5	353.7	320.0	294.7	286.1
100°	43.6	63.2	82.9	87.8	194.6	337.0	408.2	409.5	412.0	413.9	403.6
102.5°	52.7	71.0	89.4	94.0	202.3	346.8	419.0	440.5	483.3	515.5	506.7
105°	68.1	83.7	99.3	103.1	208.1	347.9	417.8	465.9	562.2	634.3	629.6
107.5°	83.9	98.4	112.9	116.6	209.1	332.4	394.0	461.1	595.4	696.0	697.2
110°	94.7	107.7	120.8	124.1	207.5	318.6	374.3	449.2	599.3	711.9	716.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	105.1	117.6	130.0	133.2	207.6	306.7	356.3	433.0	586.6	701.8	709.4
115°	120.9	132.4	144.0	146.8	209.5	292.9	334.6	408.6	556.6	667.6	678.1
117.5°	136.5	147.0	157.5	160.2	213.4	284.3	319.8	386.6	520.1	620.3	631.9
120°	145.6	155.5	165.4	167.9	216.6	281.5	313.9	374.8	496.9	588.4	599.6
122.5°	154.5	164.5	174.5	177.0	221.1	279.9	309.3	364.3	474.1	556.5	567.7
125°	168.3	177.3	186.3	188.6	227.2	278.7	304.4	351.0	444.4	514.4	524.6
127.5°	179.3	188.4	197.6	199.9	233.4	277.9	300.3	340.4	420.5	480.6	489.3
130°	185.2	195.1	204.9	207.4	237.8	278.4	298.7	334.3	405.7	459.1	467.1
132.5°	191.4	201.3	211.0	213.5	241.5	278.7	297.3	329.2	393.0	440.9	448.2
135°	200.5	209.5	218.4	220.7	245.4	278.4	294.9	321.7	375.1	415.3	421.4
137.5°	209.8	218.6	227.5	229.8	251.3	280.1	294.5	317.1	362.3	396.2	401.2
140°	217.5	225.7	233.9	235.9	255.0	280.4	293.1	312.7	351.7	381.0	385.7
142.5°	223.5	231.0	238.6	240.5	258.1	281.5	293.1	310.3	344.6	370.3	374.4
145°	232.6	239.2	245.7	247.4	262.0	281.5	291.2	305.2	333.3	354.3	357.4
147.5°	241.7	248.1	254.5	256.1	267.7	283.4	291.2	302.2	324.3	340.8	343.3
150°	247.6	253.4	259.2	260.6	270.8	284.3	291.2	300.5	319.1	333.1	335.1
152.5°	253.7	258.1	262.5	263.6	272.8	285.0	291.2	299.1	315.0	326.9	328.5
155°	262.8	266.1	269.3	270.1	277.1	286.5	291.2	297.5	310.1	319.6	320.6
157.5°	269.5	272.7	275.8	276.6	281.5	287.9	291.2	296.1	305.9	313.3	314.0
160°	274.1	276.5	279.0	279.6	283.5	288.6	291.2	295.4	303.8	310.1	310.5
162.5°	278.6	280.5	282.3	282.8	285.5	289.3	291.2	294.7	301.8	307.2	307.6
165°	283.7	285.3	287.0	287.4	288.7	290.4	291.2	293.7	298.8	302.6	303.0
167.5°	288.2	289.0	289.8	290.0	291.1	292.4	293.1	294.8	298.2	300.6	300.8
170°	291.2	292.0	292.7	292.9	293.0	293.1	293.1	294.8	298.2	300.6	300.6
172.5°	292.7	292.9	293.1	293.1	293.1	293.1	293.1	294.4	297.1	299.1	298.9
175°	294.9	294.9	294.9	294.9	294.3	293.5	293.1	293.9	295.6	296.9	296.9
177.5°	294.9	294.9	294.9	294.9	294.4	293.8	293.5	294.2	295.5	296.5	296.3
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2830.0	2822.2	2830.0	2824.9	2827.5	2819.7	2796.1	2788.3	2796.1	2803.9	2803.9
5°	2864.0	2858.8	2864.0	2864.0	2861.4	2856.2	2830.0	2824.9	2830.0	2832.7	2827.5
7.5°	2874.5	2866.6	2874.5	2869.3	2869.3	2864.0	2837.9	2832.7	2835.3	2843.2	2835.3
10°	2874.5	2866.6	2874.5	2871.8	2869.3	2864.0	2837.9	2827.5	2827.5	2835.3	2827.5
12.5°	2861.4	2856.2	2861.4	2856.2	2856.2	2851.0	2824.9	2814.4	2817.0	2819.7	2809.2
15°	2840.5	2832.7	2840.5	2835.3	2837.9	2830.0	2801.4	2790.9	2790.9	2796.1	2777.9
17.5°	2809.2	2798.7	2809.2	2806.6	2803.9	2798.7	2772.6	2762.2	2759.6	2762.2	2749.1
20°	2772.6	2764.8	2772.6	2770.1	2770.1	2759.6	2733.5	2720.5	2720.5	2720.5	2707.3
22.5°	2715.2	2707.3	2715.2	2720.5	2720.5	2717.8	2694.3	2676.0	2670.8	2670.8	2655.2
25°	2649.9	2642.1	2649.9	2649.9	2647.3	2649.9	2642.1	2631.6	2623.8	2616.0	2600.3
27.5°	2587.3	2582.0	2587.3	2582.0	2587.3	2579.5	2576.8	2574.2	2563.8	2556.0	2535.0
30°	2524.6	2519.4	2524.6	2519.4	2514.2	2508.9	2495.9	2490.6	2501.1	2495.9	2462.0
32.5°	2446.3	2441.1	2446.3	2446.3	2441.1	2441.1	2420.2	2412.3	2415.0	2430.6	2399.3
35°	2365.4	2357.6	2365.4	2362.7	2365.4	2357.6	2344.4	2341.9	2331.4	2349.7	2326.1
37.5°	2271.4	2263.5	2271.4	2271.4	2271.4	2276.5	2266.2	2258.3	2242.7	2266.2	2247.9
40°	2174.8	2164.3	2174.8	2172.1	2174.8	2180.0	2174.8	2169.5	2153.8	2172.1	2156.5
42.5°	2065.1	2062.5	2065.1	2067.7	2067.7	2078.2	2086.0	2075.6	2070.4	2057.3	2067.7
45°	1947.6	1942.4	1947.6	1952.9	1955.4	1960.7	1984.2	1984.2	1976.4	1955.4	1971.2
47.5°	1822.3	1809.2	1822.3	1838.0	1838.0	1845.8	1869.3	1887.6	1874.5	1848.4	1856.3
50°	1689.2	1691.8	1689.2	1699.6	1699.6	1728.3	1746.6	1764.9	1777.9	1746.6	1710.0
52.5°	1558.7	1556.0	1558.7	1566.5	1576.9	1590.0	1621.3	1639.6	1660.4	1642.2	1584.8
55°	1428.1	1433.3	1428.1	1430.7	1436.0	1443.8	1490.8	1509.0	1548.2	1524.7	1464.6
57.5°	1297.5	1289.7	1297.5	1302.8	1305.3	1313.2	1352.4	1386.4	1409.8	1412.4	1339.3
60°	1146.1	1135.7	1146.1	1169.6	1174.8	1180.1	1216.6	1247.9	1268.8	1276.7	1200.9
62.5°	1013.0	994.7	1013.0	1028.6	1039.1	1052.1	1078.2	1125.2	1143.5	1146.1	1039.1
65°	872.0	864.2	872.0	903.3	905.9	921.6	950.4	984.2	1023.4	1018.2	864.2
67.5°	744.1	744.1	744.1	764.9	780.6	788.4	825.0	840.7	890.3	895.5	720.5
70°	626.6	624.0	626.6	642.2	652.7	671.0	704.9	723.2	762.3	775.4	584.8
72.5°	514.4	511.7	514.4	527.4	537.8	553.5	582.2	603.1	637.1	652.7	454.3
75°	415.2	409.9	415.2	425.5	423.0	443.8	467.3	488.2	519.6	530.0	336.8
77.5°	318.5	318.5	318.5	329.0	329.0	349.9	360.3	386.4	404.7	420.3	248.0
80°	237.6	234.9	237.6	240.2	240.2	250.7	268.9	287.2	302.8	302.8	169.7
82.5°	167.1	161.8	167.1	167.1	167.1	172.3	182.8	188.0	198.4	206.3	107.0
85°	104.4	104.4	104.4	107.0	104.4	109.7	112.2	117.5	117.5	112.2	65.3
87.5°	67.9	65.3	67.9	65.3	65.3	62.6	62.6	62.6	60.1	57.4	36.6
90°	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9	8.7	5.5
92.5°	30.1	24.1	30.1	36.2	37.6	53.4	74.2	84.7	74.4	53.7	38.2
95°	105.0	86.8	105.0	123.1	127.6	167.7	220.9	247.6	209.1	132.1	74.4
97.5°	251.5	217.1	251.5	286.1	294.7	320.0	353.7	370.5	306.3	177.9	81.7
100°	362.5	321.4	362.5	403.6	413.9	412.0	409.5	408.2	337.0	194.6	87.8
102.5°	471.6	436.4	471.6	506.7	515.5	483.3	440.5	419.0	346.8	202.3	94.0
105°	610.7	591.7	610.7	629.6	634.3	562.2	465.9	417.8	347.9	208.1	103.1
107.5°	701.8	706.3	701.8	697.2	696.0	595.4	461.1	394.0	332.4	209.1	116.6
110°	736.5	756.2	736.5	716.8	711.9	599.3	449.2	374.3	318.6	207.5	124.1



TEST NUMBER: P934020

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	739.6	769.8	739.6	709.4	701.8	586.6	433.0	356.3	306.7	207.6	133.2
115°	720.1	761.9	720.1	678.1	667.6	556.6	408.6	334.6	292.9	209.5	146.8
117.5°	678.5	725.0	678.5	631.9	620.3	520.1	386.6	319.8	284.3	213.4	160.2
120°	644.9	690.1	644.9	599.6	588.4	496.9	374.8	313.9	281.5	216.6	167.9
122.5°	612.3	656.8	612.3	567.7	556.5	474.1	364.3	309.3	279.9	221.1	177.0
125°	565.7	606.8	565.7	524.6	514.4	444.4	351.0	304.4	278.7	227.2	188.6
127.5°	523.8	558.5	523.8	489.3	480.6	420.5	340.4	300.3	277.9	233.4	199.9
130°	499.1	531.1	499.1	467.1	459.1	405.7	334.3	298.7	278.4	237.8	207.4
132.5°	476.8	505.5	476.8	448.2	440.9	393.0	329.2	297.3	278.7	241.5	213.5
135°	446.1	470.8	446.1	421.4	415.3	375.1	321.7	294.9	278.4	245.4	220.7
137.5°	421.5	441.7	421.5	401.2	396.2	362.3	317.1	294.5	280.1	251.3	229.8
140°	404.6	423.6	404.6	385.7	381.0	351.7	312.7	293.1	280.4	255.0	235.9
142.5°	390.7	406.9	390.7	374.4	370.3	344.6	310.3	293.1	281.5	258.1	240.5
145°	369.7	382.0	369.7	357.4	354.3	333.3	305.2	291.2	281.5	262.0	247.4
147.5°	353.5	363.8	353.5	343.3	340.8	324.3	302.2	291.2	283.4	267.7	256.1
150°	343.4	351.7	343.4	335.1	333.1	319.1	300.5	291.2	284.3	270.8	260.6
152.5°	334.7	341.0	334.7	328.5	326.9	315.0	299.1	291.2	285.0	272.8	263.6
155°	324.8	328.9	324.8	320.6	319.6	310.1	297.5	291.2	286.5	277.1	270.1
157.5°	317.0	319.8	317.0	314.0	313.3	305.9	296.1	291.2	287.9	281.5	276.6
160°	312.2	313.9	312.2	310.5	310.1	303.8	295.4	291.2	288.6	283.5	279.6
162.5°	309.1	310.7	309.1	307.6	307.2	301.8	294.7	291.2	289.3	285.5	282.8
165°	304.7	306.4	304.7	303.0	302.6	298.8	293.7	291.2	290.4	288.7	287.4
167.5°	301.5	302.2	301.5	300.8	300.6	298.2	294.8	293.1	292.4	291.1	290.0
170°	300.6	300.6	300.6	300.6	300.6	298.2	294.8	293.1	293.1	293.0	292.9
172.5°	298.3	297.7	298.3	298.9	299.1	297.1	294.4	293.1	293.1	293.1	293.1
175°	296.9	296.9	296.9	296.9	296.9	295.6	293.9	293.1	293.5	294.3	294.9
177.5°	295.6	294.9	295.6	296.3	296.5	295.5	294.2	293.5	293.8	294.4	294.9
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



TEST NUMBER: P934020

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2798.7	2783.1	2783.1	2757.0	2746.5	2738.7	2725.6	2686.5	2676.0	2665.6	2681.2
5°	2822.2	2793.5	2772.6	2725.6	2686.5	2670.8	2621.2	2527.2	2464.6	2417.5	2391.5
7.5°	2827.5	2790.9	2751.8	2678.7	2584.6	2542.9	2391.5	2219.1	2172.1	2130.4	2104.2
10°	2822.2	2780.4	2725.6	2616.0	2394.0	2321.0	2169.5	2057.3	2028.6	2020.8	2028.6
12.5°	2803.9	2764.8	2689.0	2506.4	2195.6	2146.0	2057.3	1992.0	1986.8	1999.8	2070.4
15°	2772.6	2736.1	2647.3	2360.1	2086.0	2049.4	1986.8	1963.3	1992.0	2083.4	2294.8
17.5°	2741.3	2699.5	2589.8	2216.6	2002.5	1976.4	1931.9	1979.0	2140.8	2263.5	2334.1
20°	2699.5	2649.9	2524.6	2112.1	1942.4	1918.9	1898.0	2109.5	2232.2	2276.5	2315.8
22.5°	2649.9	2597.7	2435.8	2039.0	1879.8	1861.5	1874.5	2182.6	2232.2	2263.5	2297.5
25°	2584.6	2540.2	2331.4	1981.5	1830.2	1809.2	1858.8	2174.8	2203.4	2211.3	2279.2
27.5°	2524.6	2467.1	2221.7	1929.4	1770.1	1762.3	1872.0	2140.8	2161.7	2169.5	2242.7
30°	2451.5	2365.4	2099.0	1874.5	1707.5	1704.8	1874.5	2099.0	2093.9	2114.7	2187.8
32.5°	2375.8	2213.9	1960.7	1806.7	1647.4	1644.8	1856.3	2036.4	2031.1	2059.9	2114.7
35°	2305.3	2096.4	1772.7	1728.3	1571.7	1574.3	1811.9	1963.3	1965.9	1992.0	2026.0
37.5°	2232.2	1994.6	1566.5	1642.2	1498.6	1498.6	1751.8	1895.4	1890.2	1898.0	1945.0
40°	2146.0	1835.4	1383.7	1529.9	1430.7	1422.8	1678.7	1822.3	1804.0	1801.4	1866.7
42.5°	2054.6	1660.4	1247.9	1381.1	1352.4	1341.9	1590.0	1733.5	1699.6	1707.5	1790.9
45°	1955.4	1613.4	1143.5	1167.0	1271.5	1263.7	1493.4	1631.7	1608.3	1629.1	1715.3
47.5°	1856.3	1519.4	1109.6	968.6	1185.3	1182.6	1386.4	1532.5	1519.4	1540.4	1631.7
50°	1720.5	1415.0	1107.0	830.2	1088.7	1099.2	1258.4	1436.0	1436.0	1454.2	1550.8
52.5°	1545.5	1287.1	1005.2	751.9	976.4	1007.8	1146.1	1352.4	1357.6	1375.9	1462.0
55°	1386.4	1154.0	932.1	691.9	843.3	911.1	1036.5	1266.2	1276.7	1295.0	1373.2
57.5°	1240.1	960.7	916.4	621.4	720.5	785.9	939.9	1182.6	1187.9	1203.6	1279.3
60°	1083.4	694.5	840.7	545.7	613.5	663.1	851.1	1083.4	1101.7	1112.2	1177.5
62.5°	905.9	503.9	762.3	493.4	561.3	571.8	778.0	989.5	1013.0	1020.8	1059.9
65°	644.9	423.0	647.4	449.0	506.4	509.1	699.7	892.9	913.8	926.8	955.5
67.5°	436.0	344.6	493.4	407.3	464.8	467.3	624.0	780.6	809.4	819.7	838.0
70°	302.8	229.7	365.5	362.9	417.7	423.0	543.0	678.8	704.9	712.7	723.2
72.5°	221.9	185.3	302.8	326.3	368.1	373.4	459.5	564.0	590.0	597.8	603.1
75°	169.7	195.8	245.4	284.5	313.3	315.9	375.9	459.5	477.8	483.0	485.6
77.5°	135.8	182.8	180.1	229.7	255.9	250.7	295.0	355.1	370.7	370.7	370.7
80°	101.9	143.6	135.8	164.5	188.0	182.8	211.4	253.2	258.5	263.7	261.0
82.5°	75.7	91.4	91.4	104.4	125.3	120.1	141.0	164.5	164.5	164.5	169.7
85°	47.0	52.2	41.8	54.8	70.4	67.9	78.3	88.7	91.4	91.4	86.2
87.5°	28.8	23.5	13.0	20.8	31.3	31.3	36.6	39.1	36.6	36.6	36.6
90°	5.1	3.6	2.0	3.6	5.1	5.5	8.7	12.9	15.0	13.3	10.0
92.5°	34.9	21.3	7.9	21.3	34.9	38.2	53.7	74.4	84.7	74.2	53.4
95°	68.3	43.6	19.0	43.6	68.3	74.4	132.1	209.1	247.6	220.9	167.7
97.5°	76.3	54.6	32.9	54.6	76.3	81.7	177.9	306.3	370.5	353.7	320.0
100°	82.9	63.2	43.6	63.2	82.9	87.8	194.6	337.0	408.2	409.5	412.0
102.5°	89.4	71.0	52.7	71.0	89.4	94.0	202.3	346.8	419.0	440.5	483.3
105°	99.3	83.7	68.1	83.7	99.3	103.1	208.1	347.9	417.8	465.9	562.2
107.5°	112.9	98.4	83.9	98.4	112.9	116.6	209.1	332.4	394.0	461.1	595.4
110°	120.8	107.7	94.7	107.7	120.8	124.1	207.5	318.6	374.3	449.2	599.3



TEST NUMBER: P934020

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	130.0	117.6	105.1	117.6	130.0	133.2	207.6	306.7	356.3	433.0	586.6
115°	144.0	132.4	120.9	132.4	144.0	146.8	209.5	292.9	334.6	408.6	556.6
117.5°	157.5	147.0	136.5	147.0	157.5	160.2	213.4	284.3	319.8	386.6	520.1
120°	165.4	155.5	145.6	155.5	165.4	167.9	216.6	281.5	313.9	374.8	496.9
122.5°	174.5	164.5	154.5	164.5	174.5	177.0	221.1	279.9	309.3	364.3	474.1
125°	186.3	177.3	168.3	177.3	186.3	188.6	227.2	278.7	304.4	351.0	444.4
127.5°	197.6	188.4	179.3	188.4	197.6	199.9	233.4	277.9	300.3	340.4	420.5
130°	204.9	195.1	185.2	195.1	204.9	207.4	237.8	278.4	298.7	334.3	405.7
132.5°	211.0	201.3	191.4	201.3	211.0	213.5	241.5	278.7	297.3	329.2	393.0
135°	218.4	209.5	200.5	209.5	218.4	220.7	245.4	278.4	294.9	321.7	375.1
137.5°	227.5	218.6	209.8	218.6	227.5	229.8	251.3	280.1	294.5	317.1	362.3
140°	233.9	225.7	217.5	225.7	233.9	235.9	255.0	280.4	293.1	312.7	351.7
142.5°	238.6	231.0	223.5	231.0	238.6	240.5	258.1	281.5	293.1	310.3	344.6
145°	245.7	239.2	232.6	239.2	245.7	247.4	262.0	281.5	291.2	305.2	333.3
147.5°	254.5	248.1	241.7	248.1	254.5	256.1	267.7	283.4	291.2	302.2	324.3
150°	259.2	253.4	247.6	253.4	259.2	260.6	270.8	284.3	291.2	300.5	319.1
152.5°	262.5	258.1	253.7	258.1	262.5	263.6	272.8	285.0	291.2	299.1	315.0
155°	269.3	266.1	262.8	266.1	269.3	270.1	277.1	286.5	291.2	297.5	310.1
157.5°	275.8	272.7	269.5	272.7	275.8	276.6	281.5	287.9	291.2	296.1	305.9
160°	279.0	276.5	274.1	276.5	279.0	279.6	283.5	288.6	291.2	295.4	303.8
162.5°	282.3	280.5	278.6	280.5	282.3	282.8	285.5	289.3	291.2	294.7	301.8
165°	287.0	285.3	283.7	285.3	287.0	287.4	288.7	290.4	291.2	293.7	298.8
167.5°	289.8	289.0	288.2	289.0	289.8	290.0	291.1	292.4	293.1	294.8	298.2
170°	292.7	292.0	291.2	292.0	292.7	292.9	293.0	293.1	293.1	294.8	298.2
172.5°	293.1	292.9	292.7	292.9	293.1	293.1	293.1	293.1	293.1	294.4	297.1
175°	294.9	294.9	294.9	294.9	294.9	294.9	294.3	293.5	293.1	293.9	295.6
177.5°	294.9	294.9	294.9	294.9	294.9	294.9	294.4	293.8	293.5	294.2	295.5
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



TEST NUMBER: P934020
 CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2663.0	2655.2	2665.6	2636.9	2665.6	2655.2	2663.0	2681.2	2665.6	2676.0	2686.5
5°	2336.6	2323.6	2281.8	2247.9	2281.8	2323.6	2336.6	2391.5	2417.5	2464.6	2527.2
7.5°	2088.6	2078.2	2067.7	2046.8	2067.7	2078.2	2088.6	2104.2	2130.4	2172.1	2219.1
10°	2033.8	2036.4	2052.1	2049.4	2052.1	2036.4	2033.8	2028.6	2020.8	2028.6	2057.3
12.5°	2174.8	2198.3	2284.5	2279.2	2284.5	2198.3	2174.8	2070.4	1999.8	1986.8	1992.0
15°	2336.6	2344.4	2362.7	2365.4	2362.7	2344.4	2336.6	2294.8	2083.4	1992.0	1963.3
17.5°	2352.3	2354.9	2367.9	2367.9	2367.9	2354.9	2352.3	2334.1	2263.5	2140.8	1979.0
20°	2339.3	2344.4	2370.6	2375.8	2370.6	2344.4	2339.3	2315.8	2276.5	2232.2	2109.5
22.5°	2334.1	2344.4	2365.4	2362.7	2365.4	2344.4	2334.1	2297.5	2263.5	2232.2	2182.6
25°	2307.9	2307.9	2310.5	2313.1	2310.5	2307.9	2307.9	2279.2	2211.3	2203.4	2174.8
27.5°	2253.1	2258.3	2274.0	2271.4	2274.0	2258.3	2253.1	2242.7	2169.5	2161.7	2140.8
30°	2203.4	2198.3	2185.2	2174.8	2185.2	2198.3	2203.4	2187.8	2114.7	2093.9	2099.0
32.5°	2120.0	2106.9	2093.9	2086.0	2093.9	2106.9	2120.0	2114.7	2059.9	2031.1	2036.4
35°	2020.8	2023.3	2020.8	2012.9	2020.8	2023.3	2020.8	2026.0	1992.0	1965.9	1963.3
37.5°	1950.2	1955.4	1952.9	1942.4	1952.9	1955.4	1950.2	1945.0	1898.0	1890.2	1895.4
40°	1877.1	1879.8	1877.1	1869.3	1877.1	1879.8	1877.1	1866.7	1801.4	1804.0	1822.3
42.5°	1806.7	1804.0	1796.2	1790.9	1796.2	1804.0	1806.7	1790.9	1707.5	1699.6	1733.5
45°	1725.7	1728.3	1712.7	1704.8	1712.7	1728.3	1725.7	1715.3	1629.1	1608.3	1631.7
47.5°	1644.8	1644.8	1631.7	1623.9	1631.7	1644.8	1644.8	1631.7	1540.4	1519.4	1532.5
50°	1558.7	1556.0	1537.7	1535.2	1537.7	1556.0	1558.7	1550.8	1454.2	1436.0	1436.0
52.5°	1459.4	1459.4	1462.0	1467.3	1462.0	1459.4	1459.4	1462.0	1375.9	1357.6	1352.4
55°	1373.2	1375.9	1394.2	1399.4	1394.2	1375.9	1373.2	1373.2	1295.0	1276.7	1266.2
57.5°	1284.5	1284.5	1297.5	1297.5	1297.5	1284.5	1284.5	1279.3	1203.6	1187.9	1182.6
60°	1182.6	1187.9	1198.3	1195.8	1198.3	1187.9	1182.6	1177.5	1112.2	1101.7	1083.4
62.5°	1075.6	1080.9	1083.4	1078.2	1083.4	1080.9	1075.6	1059.9	1020.8	1013.0	989.5
65°	963.4	968.6	971.2	966.0	971.2	968.6	963.4	955.5	926.8	913.8	892.9
67.5°	848.5	845.9	843.3	853.7	843.3	845.9	848.5	838.0	819.7	809.4	780.6
70°	731.0	731.0	728.4	733.6	728.4	731.0	731.0	723.2	712.7	704.9	678.8
72.5°	605.7	603.1	613.5	605.7	613.5	603.1	605.7	603.1	597.8	590.0	564.0
75°	483.0	488.2	483.0	490.8	483.0	488.2	483.0	485.6	483.0	477.8	459.5
77.5°	368.1	373.4	368.1	368.1	368.1	373.4	368.1	370.7	370.7	370.7	355.1
80°	261.0	258.5	258.5	255.9	258.5	258.5	261.0	261.0	263.7	258.5	253.2
82.5°	167.1	164.5	164.5	169.7	164.5	164.5	167.1	169.7	164.5	164.5	164.5
85°	91.4	94.0	88.7	88.7	88.7	94.0	91.4	86.2	91.4	91.4	88.7
87.5°	34.0	31.3	31.3	31.3	31.3	31.3	34.0	36.6	36.6	36.6	39.1
90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9
92.5°	37.6	36.2	30.1	24.1	30.1	36.2	37.6	53.4	74.2	84.7	74.4
95°	127.6	123.1	105.0	86.8	105.0	123.1	127.6	167.7	220.9	247.6	209.1
97.5°	294.7	286.1	251.5	217.1	251.5	286.1	294.7	320.0	353.7	370.5	306.3
100°	413.9	403.6	362.5	321.4	362.5	403.6	413.9	412.0	409.5	408.2	337.0
102.5°	515.5	506.7	471.6	436.4	471.6	506.7	515.5	483.3	440.5	419.0	346.8
105°	634.3	629.6	610.7	591.7	610.7	629.6	634.3	562.2	465.9	417.8	347.9
107.5°	696.0	697.2	701.8	706.3	701.8	697.2	696.0	595.4	461.1	394.0	332.4
110°	711.9	716.8	736.5	756.2	736.5	716.8	711.9	599.3	449.2	374.3	318.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	701.8	709.4	739.6	769.8	739.6	709.4	701.8	586.6	433.0	356.3	306.7
115°	667.6	678.1	720.1	761.9	720.1	678.1	667.6	556.6	408.6	334.6	292.9
117.5°	620.3	631.9	678.5	725.0	678.5	631.9	620.3	520.1	386.6	319.8	284.3
120°	588.4	599.6	644.9	690.1	644.9	599.6	588.4	496.9	374.8	313.9	281.5
122.5°	556.5	567.7	612.3	656.8	612.3	567.7	556.5	474.1	364.3	309.3	279.9
125°	514.4	524.6	565.7	606.8	565.7	524.6	514.4	444.4	351.0	304.4	278.7
127.5°	480.6	489.3	523.8	558.5	523.8	489.3	480.6	420.5	340.4	300.3	277.9
130°	459.1	467.1	499.1	531.1	499.1	467.1	459.1	405.7	334.3	298.7	278.4
132.5°	440.9	448.2	476.8	505.5	476.8	448.2	440.9	393.0	329.2	297.3	278.7
135°	415.3	421.4	446.1	470.8	446.1	421.4	415.3	375.1	321.7	294.9	278.4
137.5°	396.2	401.2	421.5	441.7	421.5	401.2	396.2	362.3	317.1	294.5	280.1
140°	381.0	385.7	404.6	423.6	404.6	385.7	381.0	351.7	312.7	293.1	280.4
142.5°	370.3	374.4	390.7	406.9	390.7	374.4	370.3	344.6	310.3	293.1	281.5
145°	354.3	357.4	369.7	382.0	369.7	357.4	354.3	333.3	305.2	291.2	281.5
147.5°	340.8	343.3	353.5	363.8	353.5	343.3	340.8	324.3	302.2	291.2	283.4
150°	333.1	335.1	343.4	351.7	343.4	335.1	333.1	319.1	300.5	291.2	284.3
152.5°	326.9	328.5	334.7	341.0	334.7	328.5	326.9	315.0	299.1	291.2	285.0
155°	319.6	320.6	324.8	328.9	324.8	320.6	319.6	310.1	297.5	291.2	286.5
157.5°	313.3	314.0	317.0	319.8	317.0	314.0	313.3	305.9	296.1	291.2	287.9
160°	310.1	310.5	312.2	313.9	312.2	310.5	310.1	303.8	295.4	291.2	288.6
162.5°	307.2	307.6	309.1	310.7	309.1	307.6	307.2	301.8	294.7	291.2	289.3
165°	302.6	303.0	304.7	306.4	304.7	303.0	302.6	298.8	293.7	291.2	290.4
167.5°	300.6	300.8	301.5	302.2	301.5	300.8	300.6	298.2	294.8	293.1	292.4
170°	300.6	300.6	300.6	300.6	300.6	300.6	300.6	298.2	294.8	293.1	293.1
172.5°	299.1	298.9	298.3	297.7	298.3	298.9	299.1	297.1	294.4	293.1	293.1
175°	296.9	296.9	296.9	296.9	296.9	296.9	296.9	295.6	293.9	293.1	293.5
177.5°	296.5	296.3	295.6	294.9	295.6	296.3	296.5	295.5	294.2	293.5	293.8
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2725.6	2738.7	2746.5	2757.0	2783.1
5°	2621.2	2670.8	2686.5	2725.6	2772.6
7.5°	2391.5	2542.9	2584.6	2678.7	2751.8
10°	2169.5	2321.0	2394.0	2616.0	2725.6
12.5°	2057.3	2146.0	2195.6	2506.4	2689.0
15°	1986.8	2049.4	2086.0	2360.1	2647.3
17.5°	1931.9	1976.4	2002.5	2216.6	2589.8
20°	1898.0	1918.9	1942.4	2112.1	2524.6
22.5°	1874.5	1861.5	1879.8	2039.0	2435.8
25°	1858.8	1809.2	1830.2	1981.5	2331.4
27.5°	1872.0	1762.3	1770.1	1929.4	2221.7
30°	1874.5	1704.8	1707.5	1874.5	2099.0
32.5°	1856.3	1644.8	1647.4	1806.7	1960.7
35°	1811.9	1574.3	1571.7	1728.3	1772.7
37.5°	1751.8	1498.6	1498.6	1642.2	1566.5
40°	1678.7	1422.8	1430.7	1529.9	1383.7
42.5°	1590.0	1341.9	1352.4	1381.1	1247.9
45°	1493.4	1263.7	1271.5	1167.0	1143.5
47.5°	1386.4	1182.6	1185.3	968.6	1109.6
50°	1258.4	1099.2	1088.7	830.2	1107.0
52.5°	1146.1	1007.8	976.4	751.9	1005.2
55°	1036.5	911.1	843.3	691.9	932.1
57.5°	939.9	785.9	720.5	621.4	916.4
60°	851.1	663.1	613.5	545.7	840.7
62.5°	778.0	571.8	561.3	493.4	762.3
65°	699.7	509.1	506.4	449.0	647.4
67.5°	624.0	467.3	464.8	407.3	493.4
70°	543.0	423.0	417.7	362.9	365.5
72.5°	459.5	373.4	368.1	326.3	302.8
75°	375.9	315.9	313.3	284.5	245.4
77.5°	295.0	250.7	255.9	229.7	180.1
80°	211.4	182.8	188.0	164.5	135.8
82.5°	141.0	120.1	125.3	104.4	91.4
85°	78.3	67.9	70.4	54.8	41.8
87.5°	36.6	31.3	31.3	20.8	13.0
90°	8.7	5.5	5.1	3.6	2.0
92.5°	53.7	38.2	34.9	21.3	7.9
95°	132.1	74.4	68.3	43.6	19.0
97.5°	177.9	81.7	76.3	54.6	32.9
100°	194.6	87.8	82.9	63.2	43.6
102.5°	202.3	94.0	89.4	71.0	52.7
105°	208.1	103.1	99.3	83.7	68.1
107.5°	209.1	116.6	112.9	98.4	83.9
110°	207.5	124.1	120.8	107.7	94.7



TEST NUMBER: P934020

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	207.6	133.2	130.0	117.6	105.1
115°	209.5	146.8	144.0	132.4	120.9
117.5°	213.4	160.2	157.5	147.0	136.5
120°	216.6	167.9	165.4	155.5	145.6
122.5°	221.1	177.0	174.5	164.5	154.5
125°	227.2	188.6	186.3	177.3	168.3
127.5°	233.4	199.9	197.6	188.4	179.3
130°	237.8	207.4	204.9	195.1	185.2
132.5°	241.5	213.5	211.0	201.3	191.4
135°	245.4	220.7	218.4	209.5	200.5
137.5°	251.3	229.8	227.5	218.6	209.8
140°	255.0	235.9	233.9	225.7	217.5
142.5°	258.1	240.5	238.6	231.0	223.5
145°	262.0	247.4	245.7	239.2	232.6
147.5°	267.7	256.1	254.5	248.1	241.7
150°	270.8	260.6	259.2	253.4	247.6
152.5°	272.8	263.6	262.5	258.1	253.7
155°	277.1	270.1	269.3	266.1	262.8
157.5°	281.5	276.6	275.8	272.7	269.5
160°	283.5	279.6	279.0	276.5	274.1
162.5°	285.5	282.8	282.3	280.5	278.6
165°	288.7	287.4	287.0	285.3	283.7
167.5°	291.1	290.0	289.8	289.0	288.2
170°	293.0	292.9	292.7	292.0	291.2
172.5°	293.1	293.1	293.1	292.9	292.7
175°	294.3	294.9	294.9	294.9	294.9
177.5°	294.4	294.9	294.9	294.9	294.9
180°	294.9	294.9	294.9	294.9	294.9



TEST NUMBER: P934020
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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	16.00	17.20	16.66	17.88	18.66	18.84	20.04	19.50	20.71	21.50
	3H	16.50	17.58	17.18	18.27	19.09	20.21	21.29	20.89	21.98	22.80
	4H	16.71	17.72	17.40	18.42	19.26	20.67	21.69	21.37	22.39	23.22
	6H	16.84	17.78	17.55	18.49	19.34	20.98	21.91	21.68	22.62	23.47
	8H	16.86	17.75	17.57	18.48	19.33	21.06	21.95	21.78	22.68	23.54
	12H	16.84	17.69	17.56	18.41	19.29	21.11	21.97	21.84	22.69	23.57
4H	2H	17.07	18.09	17.77	18.79	19.62	19.29	20.30	19.98	21.00	21.84
	3H	18.13	18.98	18.84	19.72	20.57	20.83	21.67	21.54	22.41	23.26
	4H	18.42	19.19	19.15	19.93	20.81	21.37	22.14	22.10	22.88	23.76
	6H	18.57	19.23	19.31	20.00	20.89	21.76	22.42	22.50	23.19	24.08
	8H	18.58	19.20	19.33	19.96	20.87	21.87	22.49	22.62	23.25	24.16
	12H	18.56	19.12	19.33	19.91	20.82	21.95	22.51	22.72	23.29	24.20
8H	4H	18.90	19.53	19.65	20.29	21.19	21.52	22.14	22.27	22.90	23.81
	6H	19.18	19.70	19.96	20.50	21.40	21.97	22.49	22.75	23.29	24.20
	8H	19.23	19.68	20.02	20.49	21.41	22.13	22.59	22.92	23.39	24.31
	12H	19.22	19.63	20.02	20.42	21.40	22.24	22.65	23.04	23.44	24.42
12H	4H	18.93	19.49	19.70	20.27	21.18	21.50	22.06	22.27	22.85	23.75
	6H	19.24	19.70	20.04	20.51	21.43	21.97	22.43	22.77	23.24	24.16
	8H	19.33	19.73	20.12	20.52	21.51	22.15	22.56	22.95	23.35	24.33