

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: P934111

Luminaire Tested: SQ4-FA-025U-125D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934111
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

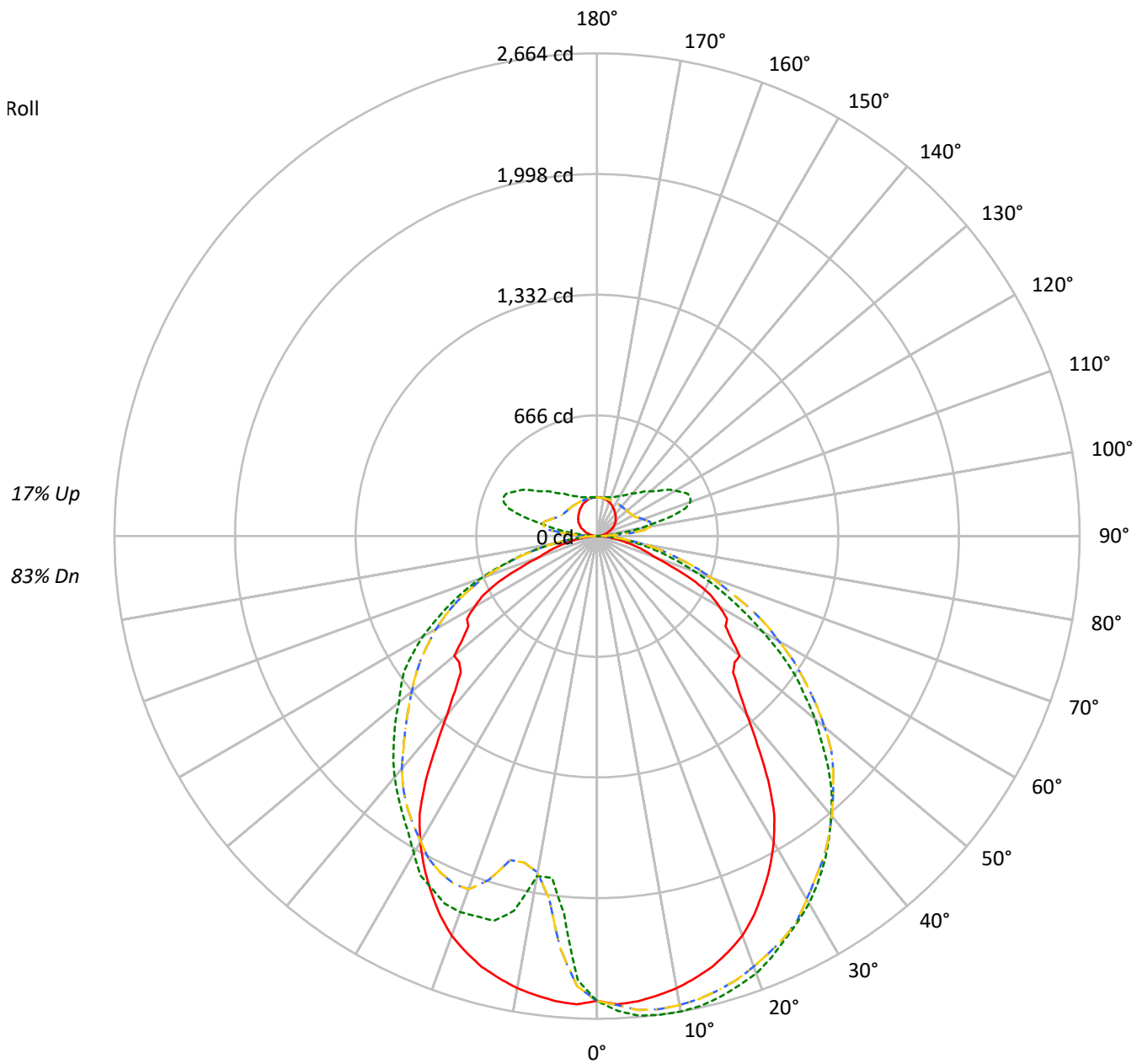
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8038.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.4
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15866	15866	15866	15866
5°	15979	16016	15979	12593
10°	15866	15777	15866	11279
15°	15688	15435	15688	12888
20°	15354	15030	15354	12915
25°	14676	14439	14676	12642
30°	13802	13949	13802	12041
35°	12299	13329	12299	11380
40°	10242	12598	10242	10881
45°	9146	11744	9146	10308
50°	9708	10725	9708	9731
55°	9125	9626	9125	9398
60°	9395	8176	9395	8609
65°	8505	6758	8505	7555
70°	5875	5386	5875	6332
75°	5133	3982	5133	4768
80°	4108	2632	4108	2866
85°	2313	1393	2313	1185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14026 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	2.9
10°-20°	657.3	8.2
20°-30°	1016.1	12.6
30°-40°	1213.0	15.1
40°-50°	1220.1	15.2
50°-60°	1061.7	13.2
60°-70°	752.7	9.4
70°-80°	398.2	5.0
80°-90°	100.0	1.2
90°-100°	104.3	1.3
100°-110°	274.2	3.4
110°-120°	284.4	3.5
120°-130°	228.1	2.8
130°-140°	179.0	2.2
140°-150°	137.4	1.7
150°-160°	98.9	1.2
160°-170°	60.5	0.8
170°-180°	20.5	0.3
0°-30°	1905.0	23.7
0°-40°	3118.0	38.8
0°-60°	5399.8	67.2
0°-90°	6650.7	82.7
90°-120°	662.9	8.2
90°-150°	1207.4	15.0
90°-180°	1387.0	17.3
0°-180°	8038.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2565	2565	2565	2565	2565	
5°	2577	2657	2577	2089	2577	244
15°	2460	2633	2460	2198	2460	692
25°	2167	2456	2167	2150	2167	995
35°	1648	2191	1648	1871	1648	1019
45°	1063	1805	1063	1584	1063	851
55°	866	1332	866	1300	866	796
65°	602	803	602	898	602	575
75°	228	381	228	456	228	240
85°	39	97	39	82	39	52
90°	1	5	1	5	1	3
95°	14	63	14	63	14	15
105°	49	429	49	429	49	52
115°	88	553	88	553	88	87
125°	122	440	122	440	122	108
135°	146	342	146	342	146	113
145°	169	277	169	277	169	106
155°	191	239	191	239	191	88
165°	206	222	206	222	206	58
175°	214	216	214	216	214	20
180°	214	214	214	214	214	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2586.6	2586.6	2601.2	2606.0	2606.0	2598.7	2591.4	2598.7	2620.6	2627.9	2625.4
5°	2576.9	2596.3	2623.0	2627.9	2632.7	2630.2	2625.4	2630.2	2654.5	2659.4	2661.8
7.5°	2557.5	2593.8	2627.9	2635.1	2642.4	2635.1	2632.7	2637.5	2661.8	2666.7	2666.7
10°	2533.2	2584.2	2623.0	2627.9	2635.1	2627.9	2627.9	2637.5	2661.8	2666.7	2669.1
12.5°	2499.3	2569.6	2606.0	2610.8	2620.6	2618.1	2615.7	2625.4	2649.6	2654.5	2654.5
15°	2460.5	2542.9	2576.9	2581.8	2598.7	2593.8	2593.8	2603.6	2630.2	2637.5	2635.1
17.5°	2407.0	2508.9	2547.7	2555.0	2567.1	2564.8	2567.1	2576.9	2601.2	2606.0	2608.4
20°	2346.4	2462.8	2508.9	2516.2	2528.3	2528.3	2528.3	2540.5	2564.8	2574.4	2574.4
22.5°	2263.9	2414.3	2462.8	2467.7	2482.3	2482.3	2487.1	2504.1	2525.9	2528.3	2528.3
25°	2166.8	2360.9	2402.1	2416.8	2431.3	2438.6	2445.8	2455.6	2462.8	2460.5	2462.8
27.5°	2064.9	2293.0	2346.4	2356.1	2375.5	2382.7	2392.5	2394.9	2397.4	2404.6	2399.8
30°	1950.8	2198.3	2278.4	2288.1	2319.6	2324.5	2314.9	2319.6	2331.8	2336.7	2341.5
32.5°	1822.2	2057.6	2208.1	2229.9	2259.0	2244.5	2242.0	2249.3	2268.7	2268.7	2273.6
35°	1647.6	1948.4	2142.6	2162.0	2183.8	2166.8	2176.5	2178.9	2191.1	2198.3	2195.9
37.5°	1455.9	1853.8	2074.6	2089.1	2106.2	2084.3	2098.9	2106.2	2115.8	2111.0	2111.0
40°	1286.0	1705.8	1994.5	2004.3	2018.8	2001.8	2016.4	2021.3	2026.1	2021.3	2018.8
42.5°	1159.8	1543.2	1909.6	1921.8	1912.0	1924.1	1929.0	1938.8	1931.4	1921.8	1921.8
45°	1062.8	1499.6	1817.4	1832.0	1817.4	1836.9	1844.1	1844.1	1822.2	1817.4	1815.0
47.5°	1031.2	1412.2	1725.2	1725.2	1717.9	1742.2	1754.4	1737.3	1715.4	1708.2	1708.2
50°	1028.8	1315.2	1599.0	1589.4	1623.3	1652.4	1640.3	1623.3	1606.3	1579.6	1579.6
52.5°	934.2	1196.2	1436.5	1472.8	1526.3	1543.2	1523.8	1506.8	1477.7	1465.5	1455.9
55°	866.2	1072.4	1288.4	1361.2	1417.1	1438.9	1402.5	1385.5	1341.8	1334.6	1329.7
57.5°	851.7	892.9	1152.6	1244.8	1312.7	1310.3	1288.4	1256.9	1220.5	1213.3	1210.8
60°	781.3	645.4	1007.0	1116.1	1186.5	1179.2	1159.8	1130.8	1096.7	1091.9	1087.1
62.5°	708.5	468.3	841.9	965.8	1065.2	1062.8	1045.8	1002.1	977.9	965.8	956.0
65°	601.8	393.1	599.3	803.1	946.3	951.1	914.8	883.2	856.6	841.9	839.6
67.5°	458.6	320.3	405.2	669.7	832.3	827.4	781.3	766.7	732.8	725.5	711.0
70°	339.7	213.6	281.4	543.5	720.6	708.5	672.2	655.1	623.6	606.6	596.9
72.5°	281.4	172.3	206.2	422.2	606.6	592.1	560.5	541.1	514.4	499.9	490.1
75°	228.1	182.0	157.7	313.0	492.5	482.9	453.7	434.3	412.5	393.1	395.5
77.5°	167.4	169.9	126.2	230.5	390.6	376.1	359.1	334.9	325.1	305.7	305.7
80°	126.2	133.5	94.6	157.7	281.4	281.4	266.9	249.9	233.0	223.2	223.2
82.5°	84.9	84.9	70.4	99.5	191.7	184.4	174.7	169.9	160.1	155.3	155.3
85°	38.8	48.6	43.7	60.7	104.3	109.2	109.2	104.3	101.9	97.0	99.5
87.5°	12.1	21.8	26.7	33.9	53.3	55.8	58.2	58.2	58.2	60.7	60.7
90°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3	5.4	5.4
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6	27.2	26.2
95°	13.8	31.6	49.5	54.0	95.9	151.7	179.6	160.3	121.6	92.6	89.4
97.5°	23.8	39.6	55.4	59.3	129.2	222.3	268.8	256.6	232.2	213.9	207.6
100°	31.6	45.9	60.2	63.8	141.3	244.6	296.3	297.1	298.9	300.3	292.8
102.5°	38.2	51.6	64.9	68.3	146.8	251.6	304.0	319.6	350.8	374.2	367.8
105°	49.4	60.7	72.0	74.9	151.0	252.4	303.1	338.0	407.9	460.3	456.9
107.5°	60.9	71.4	81.9	84.6	151.7	241.2	285.9	334.7	432.1	505.2	506.0
110°	68.6	78.2	87.7	90.1	150.6	231.3	271.6	326.1	435.0	516.6	520.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.3	85.4	94.4	96.7	150.6	222.6	258.5	314.2	425.7	509.3	514.7
115°	87.8	96.2	104.5	106.6	152.0	212.5	242.8	296.6	403.9	484.4	492.1
117.5°	99.1	106.7	114.2	116.2	154.8	206.3	232.1	280.6	377.4	450.1	458.5
120°	105.7	112.9	120.0	121.8	157.2	204.3	227.8	272.1	360.6	427.0	435.3
122.5°	112.1	119.4	126.6	128.4	160.4	203.2	224.5	264.3	344.1	403.9	412.0
125°	122.1	128.7	135.3	136.9	164.9	202.3	220.9	254.8	322.6	373.3	380.8
127.5°	130.1	136.7	143.4	145.0	169.3	201.7	217.9	246.9	305.2	348.7	355.1
130°	134.4	141.6	148.7	150.5	172.6	202.0	216.7	242.6	294.4	333.2	339.0
132.5°	138.9	146.1	153.2	155.0	175.2	202.3	215.8	238.9	285.3	320.0	325.1
135°	145.5	152.0	158.5	160.1	178.1	202.1	214.0	233.5	272.3	301.3	305.8
137.5°	152.3	158.7	165.1	166.7	182.4	203.3	213.8	230.2	263.0	287.6	291.2
140°	157.8	163.8	169.7	171.2	185.1	203.5	212.7	226.9	255.3	276.5	279.9
142.5°	162.1	167.6	173.1	174.5	187.2	204.2	212.7	225.1	250.1	268.7	271.7
145°	168.7	173.5	178.3	179.5	190.1	204.2	211.3	221.4	241.8	257.1	259.3
147.5°	175.3	180.0	184.7	185.8	194.4	205.6	211.3	219.3	235.3	247.3	249.1
150°	179.6	183.8	188.1	189.2	196.6	206.4	211.3	218.1	231.5	241.7	243.2
152.5°	184.1	187.3	190.5	191.3	198.0	206.9	211.3	217.0	228.6	237.3	238.4
155°	190.7	193.1	195.5	196.1	201.1	207.9	211.3	215.9	225.0	231.9	232.7
157.5°	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.8	222.0	227.3	227.9
160°	198.9	200.8	202.5	203.0	205.7	209.5	211.3	214.3	220.5	225.0	225.3
162.5°	202.2	203.5	204.9	205.3	207.3	209.9	211.3	213.9	219.0	222.9	223.2
165°	205.8	207.0	208.2	208.5	209.5	210.7	211.3	213.1	216.8	219.6	219.9
167.5°	209.1	209.7	210.2	210.4	211.2	212.2	212.7	214.0	216.3	218.2	218.3
170°	211.3	211.8	212.4	212.5	212.6	212.7	212.7	214.0	216.3	218.2	218.2
172.5°	212.4	212.5	212.7	212.7	212.7	212.7	212.7	213.7	215.6	217.0	216.9
175°	214.0	214.0	214.0	214.0	213.6	213.0	212.7	213.3	214.5	215.5	215.5
177.5°	214.0	214.0	214.0	214.0	213.7	213.2	213.0	213.5	214.4	215.2	215.1
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2630.2	2623.0	2630.2	2625.4	2627.9	2620.6	2598.7	2591.4	2598.7	2606.0	2606.0
5°	2661.8	2656.9	2661.8	2661.8	2659.4	2654.5	2630.2	2625.4	2630.2	2632.7	2627.9
7.5°	2671.5	2664.3	2671.5	2666.7	2666.7	2661.8	2637.5	2632.7	2635.1	2642.4	2635.1
10°	2671.5	2664.3	2671.5	2669.1	2666.7	2661.8	2637.5	2627.9	2627.9	2635.1	2627.9
12.5°	2659.4	2654.5	2659.4	2654.5	2654.5	2649.6	2625.4	2615.7	2618.1	2620.6	2610.8
15°	2640.0	2632.7	2640.0	2635.1	2637.5	2630.2	2603.6	2593.8	2593.8	2598.7	2581.8
17.5°	2610.8	2601.2	2610.8	2608.4	2606.0	2601.2	2576.9	2567.1	2564.8	2567.1	2555.0
20°	2576.9	2569.6	2576.9	2574.4	2574.4	2564.8	2540.5	2528.3	2528.3	2528.3	2516.2
22.5°	2523.5	2516.2	2523.5	2528.3	2528.3	2525.9	2504.1	2487.1	2482.3	2482.3	2467.7
25°	2462.8	2455.6	2462.8	2462.8	2460.5	2462.8	2455.6	2445.8	2438.6	2431.3	2416.8
27.5°	2404.6	2399.8	2404.6	2399.8	2404.6	2397.4	2394.9	2392.5	2382.7	2375.5	2356.1
30°	2346.4	2341.5	2346.4	2341.5	2336.7	2331.8	2319.6	2314.9	2324.5	2319.6	2288.1
32.5°	2273.6	2268.7	2273.6	2273.6	2268.7	2268.7	2249.3	2242.0	2244.5	2259.0	2229.9
35°	2198.3	2191.1	2198.3	2195.9	2198.3	2191.1	2178.9	2176.5	2166.8	2183.8	2162.0
37.5°	2111.0	2103.7	2111.0	2111.0	2111.0	2115.8	2106.2	2098.9	2084.3	2106.2	2089.1
40°	2021.3	2011.5	2021.3	2018.8	2021.3	2026.1	2021.3	2016.4	2001.8	2018.8	2004.3
42.5°	1919.4	1916.9	1919.4	1921.8	1921.8	1931.4	1938.8	1929.0	1924.1	1912.0	1921.8
45°	1810.1	1805.3	1810.1	1815.0	1817.4	1822.2	1844.1	1844.1	1836.9	1817.4	1832.0
47.5°	1693.6	1681.5	1693.6	1708.2	1708.2	1715.4	1737.3	1754.4	1742.2	1717.9	1725.2
50°	1569.9	1572.3	1569.9	1579.6	1579.6	1606.3	1623.3	1640.3	1652.4	1623.3	1589.4
52.5°	1448.6	1446.1	1448.6	1455.9	1465.5	1477.7	1506.8	1523.8	1543.2	1526.3	1472.8
55°	1327.2	1332.1	1327.2	1329.7	1334.6	1341.8	1385.5	1402.5	1438.9	1417.1	1361.2
57.5°	1205.9	1198.6	1205.9	1210.8	1213.3	1220.5	1256.9	1288.4	1310.3	1312.7	1244.8
60°	1065.2	1055.5	1065.2	1087.1	1091.9	1096.7	1130.8	1159.8	1179.2	1186.5	1116.1
62.5°	941.5	924.5	941.5	956.0	965.8	977.9	1002.1	1045.8	1062.8	1065.2	965.8
65°	810.4	803.1	810.4	839.6	841.9	856.6	883.2	914.8	951.1	946.3	803.1
67.5°	691.6	691.6	691.6	711.0	725.5	732.8	766.7	781.3	827.4	832.3	669.7
70°	582.3	579.9	582.3	596.9	606.6	623.6	655.1	672.2	708.5	720.6	543.5
72.5°	478.0	475.6	478.0	490.1	499.9	514.4	541.1	560.5	592.1	606.6	422.2
75°	385.8	381.0	385.8	395.5	393.1	412.5	434.3	453.7	482.9	492.5	313.0
77.5°	296.1	296.1	296.1	305.7	305.7	325.1	334.9	359.1	376.1	390.6	230.5
80°	220.8	218.4	220.8	223.2	223.2	233.0	249.9	266.9	281.4	281.4	157.7
82.5°	155.3	150.5	155.3	155.3	155.3	160.1	169.9	174.7	184.4	191.7	99.5
85°	97.0	97.0	97.0	99.5	97.0	101.9	104.3	109.2	109.2	104.3	60.7
87.5°	63.1	60.7	63.1	60.7	60.7	58.2	58.2	58.2	55.8	53.3	33.9
90°	5.4	5.4	5.4	5.4	5.4	7.3	9.7	10.9	9.4	6.3	4.0
92.5°	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.5	54.0	39.0	27.7
95°	76.2	63.1	76.2	89.4	92.6	121.6	160.3	179.6	151.7	95.9	54.0
97.5°	182.6	157.5	182.6	207.6	213.9	232.2	256.6	268.8	222.3	129.2	59.3
100°	263.1	233.3	263.1	292.8	300.3	298.9	297.1	296.3	244.6	141.3	63.8
102.5°	342.2	316.7	342.2	367.8	374.2	350.8	319.6	304.0	251.6	146.8	68.3
105°	443.2	429.4	443.2	456.9	460.3	407.9	338.0	303.1	252.4	151.0	74.9
107.5°	509.3	512.6	509.3	506.0	505.2	432.1	334.7	285.9	241.2	151.7	84.6
110°	534.5	548.8	534.5	520.2	516.6	435.0	326.1	271.6	231.3	150.6	90.1



TEST NUMBER: P934111

CATALOG NUMBER: SQ4-FA-025U-125D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	536.7	558.7	536.7	514.7	509.3	425.7	314.2	258.5	222.6	150.6	96.7
115°	522.5	553.0	522.5	492.1	484.4	403.9	296.6	242.8	212.5	152.0	106.6
117.5°	492.3	526.1	492.3	458.5	450.1	377.4	280.6	232.1	206.3	154.8	116.2
120°	468.1	500.8	468.1	435.3	427.0	360.6	272.1	227.8	204.3	157.2	121.8
122.5°	444.3	476.7	444.3	412.0	403.9	344.1	264.3	224.5	203.2	160.4	128.4
125°	410.5	440.3	410.5	380.8	373.3	322.6	254.8	220.9	202.3	164.9	136.9
127.5°	380.2	405.3	380.2	355.1	348.7	305.2	246.9	217.9	201.7	169.3	145.0
130°	362.2	385.5	362.2	339.0	333.2	294.4	242.6	216.7	202.0	172.6	150.5
132.5°	346.0	366.8	346.0	325.1	320.0	285.3	238.9	215.8	202.3	175.2	155.0
135°	323.7	341.7	323.7	305.8	301.3	272.3	233.5	214.0	202.1	178.1	160.1
137.5°	305.9	320.5	305.9	291.2	287.6	263.0	230.2	213.8	203.3	182.4	166.7
140°	293.6	307.4	293.6	279.9	276.5	255.3	226.9	212.7	203.5	185.1	171.2
142.5°	283.5	295.3	283.5	271.7	268.7	250.1	225.1	212.7	204.2	187.2	174.5
145°	268.3	277.2	268.3	259.3	257.1	241.8	221.4	211.3	204.2	190.1	179.5
147.5°	256.6	264.0	256.6	249.1	247.3	235.3	219.3	211.3	205.6	194.4	185.8
150°	249.2	255.3	249.2	243.2	241.7	231.5	218.1	211.3	206.4	196.6	189.2
152.5°	242.9	247.5	242.9	238.4	237.3	228.6	217.0	211.3	206.9	198.0	191.3
155°	235.7	238.7	235.7	232.7	231.9	225.0	215.9	211.3	207.9	201.1	196.1
157.5°	230.0	232.1	230.0	227.9	227.3	222.0	214.8	211.3	209.0	204.3	200.8
160°	226.6	227.8	226.6	225.3	225.0	220.5	214.3	211.3	209.5	205.7	203.0
162.5°	224.4	225.5	224.4	223.2	222.9	219.0	213.9	211.3	209.9	207.3	205.3
165°	221.1	222.4	221.1	219.9	219.6	216.8	213.1	211.3	210.7	209.5	208.5
167.5°	218.8	219.3	218.8	218.3	218.2	216.3	214.0	212.7	212.2	211.2	210.4
170°	218.2	218.2	218.2	218.2	218.2	216.3	214.0	212.7	212.7	212.6	212.5
172.5°	216.4	216.1	216.4	216.9	217.0	215.6	213.7	212.7	212.7	212.7	212.7
175°	215.5	215.5	215.5	215.5	215.5	214.5	213.3	212.7	213.0	213.6	214.0
177.5°	214.5	214.0	214.5	215.1	215.2	214.4	213.5	213.0	213.2	213.7	214.0
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



TEST NUMBER: P934111

CATALOG NUMBER: SQ4-FA-025U-125D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2601.2	2586.6	2586.6	2562.4	2552.6	2545.4	2533.2	2496.8	2487.1	2477.4	2491.9
5°	2623.0	2596.3	2576.9	2533.2	2496.8	2482.3	2436.2	2348.8	2290.6	2246.9	2222.6
7.5°	2627.9	2593.8	2557.5	2489.5	2402.1	2363.3	2222.6	2062.5	2018.8	1980.0	1955.7
10°	2623.0	2584.2	2533.2	2431.3	2225.1	2157.1	2016.4	1912.0	1885.3	1878.1	1885.3
12.5°	2606.0	2569.6	2499.3	2329.4	2040.7	1994.5	1912.0	1851.4	1846.5	1858.7	1924.1
15°	2576.9	2542.9	2460.5	2193.5	1938.8	1904.7	1846.5	1824.7	1851.4	1936.3	2132.8
17.5°	2547.7	2508.9	2407.0	2060.1	1861.0	1836.9	1795.6	1839.2	1989.7	2103.7	2169.3
20°	2508.9	2462.8	2346.4	1963.0	1805.3	1783.4	1764.0	1960.6	2074.6	2115.8	2152.2
22.5°	2462.8	2414.3	2263.9	1895.1	1747.0	1730.1	1742.2	2028.5	2074.6	2103.7	2135.2
25°	2402.1	2360.9	2166.8	1841.6	1700.9	1681.5	1727.6	2021.3	2047.9	2055.2	2118.3
27.5°	2346.4	2293.0	2064.9	1793.2	1645.1	1637.8	1739.7	1989.7	2009.1	2016.4	2084.3
30°	2278.4	2198.3	1950.8	1742.2	1586.9	1584.5	1742.2	1950.8	1946.0	1965.4	2033.3
32.5°	2208.1	2057.6	1822.2	1679.1	1531.1	1528.6	1725.2	1892.6	1887.8	1914.5	1965.4
35°	2142.6	1948.4	1647.6	1606.3	1460.7	1463.2	1684.0	1824.7	1827.1	1851.4	1882.9
37.5°	2074.6	1853.8	1455.9	1526.3	1392.8	1392.8	1628.2	1761.6	1756.7	1764.0	1807.7
40°	1994.5	1705.8	1286.0	1421.9	1329.7	1322.4	1560.2	1693.6	1676.6	1674.2	1734.9
42.5°	1909.6	1543.2	1159.8	1283.6	1256.9	1247.2	1477.7	1611.1	1579.6	1586.9	1664.5
45°	1817.4	1499.6	1062.8	1084.6	1181.7	1174.4	1387.9	1516.5	1494.7	1514.1	1594.1
47.5°	1725.2	1412.2	1031.2	900.2	1101.6	1099.2	1288.4	1424.3	1412.2	1431.6	1516.5
50°	1599.0	1315.2	1028.8	771.6	1011.8	1021.5	1169.6	1334.6	1334.6	1351.5	1441.3
52.5°	1436.5	1196.2	934.2	698.8	907.5	936.6	1065.2	1256.9	1261.7	1278.7	1358.8
55°	1288.4	1072.4	866.2	643.0	783.7	846.8	963.3	1176.8	1186.5	1203.5	1276.3
57.5°	1152.6	892.9	851.7	577.5	669.7	730.4	873.5	1099.2	1104.0	1118.6	1189.0
60°	1007.0	645.4	781.3	507.2	570.3	616.3	791.0	1007.0	1024.0	1033.6	1094.3
62.5°	841.9	468.3	708.5	458.6	521.7	531.3	723.1	919.6	941.5	948.7	985.2
65°	599.3	393.1	601.8	417.4	470.7	473.1	650.3	829.8	849.2	861.4	888.1
67.5°	405.2	320.3	458.6	378.5	431.9	434.3	579.9	725.5	752.2	761.9	778.9
70°	281.4	213.6	339.7	337.3	388.2	393.1	504.7	630.9	655.1	662.4	672.2
72.5°	206.2	172.3	281.4	303.3	342.2	347.0	427.0	524.1	548.4	555.6	560.5
75°	157.7	182.0	228.1	264.5	291.2	293.6	349.4	427.0	444.1	448.9	451.3
77.5°	126.2	169.9	167.4	213.6	237.8	233.0	274.2	330.0	344.5	344.5	344.5
80°	94.6	133.5	126.2	152.9	174.7	169.9	196.6	235.4	240.2	245.0	242.6
82.5°	70.4	84.9	84.9	97.0	116.4	111.7	131.1	152.9	152.9	152.9	157.7
85°	43.7	48.6	38.8	51.0	65.5	63.1	72.8	82.5	84.9	84.9	80.1
87.5°	26.7	21.8	12.1	19.4	29.2	29.2	33.9	36.4	33.9	33.9	33.9
90°	3.7	2.6	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3
92.5°	25.2	15.5	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6
95°	49.5	31.6	13.8	31.6	49.5	54.0	95.9	151.7	179.6	160.3	121.6
97.5°	55.4	39.6	23.8	39.6	55.4	59.3	129.2	222.3	268.8	256.6	232.2
100°	60.2	45.9	31.6	45.9	60.2	63.8	141.3	244.6	296.3	297.1	298.9
102.5°	64.9	51.6	38.2	51.6	64.9	68.3	146.8	251.6	304.0	319.6	350.8
105°	72.0	60.7	49.4	60.7	72.0	74.9	151.0	252.4	303.1	338.0	407.9
107.5°	81.9	71.4	60.9	71.4	81.9	84.6	151.7	241.2	285.9	334.7	432.1
110°	87.7	78.2	68.6	78.2	87.7	90.1	150.6	231.3	271.6	326.1	435.0



TEST NUMBER: P934111

CATALOG NUMBER: SQ4-FA-025U-125D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	94.4	85.4	76.3	85.4	94.4	96.7	150.6	222.6	258.5	314.2	425.7
115°	104.5	96.2	87.8	96.2	104.5	106.6	152.0	212.5	242.8	296.6	403.9
117.5°	114.2	106.7	99.1	106.7	114.2	116.2	154.8	206.3	232.1	280.6	377.4
120°	120.0	112.9	105.7	112.9	120.0	121.8	157.2	204.3	227.8	272.1	360.6
122.5°	126.6	119.4	112.1	119.4	126.6	128.4	160.4	203.2	224.5	264.3	344.1
125°	135.3	128.7	122.1	128.7	135.3	136.9	164.9	202.3	220.9	254.8	322.6
127.5°	143.4	136.7	130.1	136.7	143.4	145.0	169.3	201.7	217.9	246.9	305.2
130°	148.7	141.6	134.4	141.6	148.7	150.5	172.6	202.0	216.7	242.6	294.4
132.5°	153.2	146.1	138.9	146.1	153.2	155.0	175.2	202.3	215.8	238.9	285.3
135°	158.5	152.0	145.5	152.0	158.5	160.1	178.1	202.1	214.0	233.5	272.3
137.5°	165.1	158.7	152.3	158.7	165.1	166.7	182.4	203.3	213.8	230.2	263.0
140°	169.7	163.8	157.8	163.8	169.7	171.2	185.1	203.5	212.7	226.9	255.3
142.5°	173.1	167.6	162.1	167.6	173.1	174.5	187.2	204.2	212.7	225.1	250.1
145°	178.3	173.5	168.7	173.5	178.3	179.5	190.1	204.2	211.3	221.4	241.8
147.5°	184.7	180.0	175.3	180.0	184.7	185.8	194.4	205.6	211.3	219.3	235.3
150°	188.1	183.8	179.6	183.8	188.1	189.2	196.6	206.4	211.3	218.1	231.5
152.5°	190.5	187.3	184.1	187.3	190.5	191.3	198.0	206.9	211.3	217.0	228.6
155°	195.5	193.1	190.7	193.1	195.5	196.1	201.1	207.9	211.3	215.9	225.0
157.5°	200.2	197.9	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.8	222.0
160°	202.5	200.8	198.9	200.8	202.5	203.0	205.7	209.5	211.3	214.3	220.5
162.5°	204.9	203.5	202.2	203.5	204.9	205.3	207.3	209.9	211.3	213.9	219.0
165°	208.2	207.0	205.8	207.0	208.2	208.5	209.5	210.7	211.3	213.1	216.8
167.5°	210.2	209.7	209.1	209.7	210.2	210.4	211.2	212.2	212.7	214.0	216.3
170°	212.4	211.8	211.3	211.8	212.4	212.5	212.6	212.7	212.7	214.0	216.3
172.5°	212.7	212.5	212.4	212.5	212.7	212.7	212.7	212.7	212.7	213.7	215.6
175°	214.0	214.0	214.0	214.0	214.0	214.0	213.6	213.0	212.7	213.3	214.5
177.5°	214.0	214.0	214.0	214.0	214.0	214.0	213.7	213.2	213.0	213.5	214.4
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



TEST NUMBER: P934111
 CATALOG NUMBER: SQ4-FA-025U-125D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2475.0	2467.7	2477.4	2450.7	2477.4	2467.7	2475.0	2491.9	2477.4	2487.1	2496.8
5°	2171.6	2159.5	2120.7	2089.1	2120.7	2159.5	2171.6	2222.6	2246.9	2290.6	2348.8
7.5°	1941.2	1931.4	1921.8	1902.3	1921.8	1931.4	1941.2	1955.7	1980.0	2018.8	2062.5
10°	1890.2	1892.6	1907.2	1904.7	1907.2	1892.6	1890.2	1885.3	1878.1	1885.3	1912.0
12.5°	2021.3	2043.1	2123.2	2118.3	2123.2	2043.1	2021.3	1924.1	1858.7	1846.5	1851.4
15°	2171.6	2178.9	2195.9	2198.3	2195.9	2178.9	2171.6	2132.8	1936.3	1851.4	1824.7
17.5°	2186.2	2188.7	2200.8	2200.8	2200.8	2188.7	2186.2	2169.3	2103.7	1989.7	1839.2
20°	2174.1	2178.9	2203.2	2208.1	2203.2	2178.9	2174.1	2152.2	2115.8	2074.6	1960.6
22.5°	2169.3	2178.9	2198.3	2195.9	2198.3	2178.9	2169.3	2135.2	2103.7	2074.6	2028.5
25°	2145.0	2145.0	2147.4	2149.9	2147.4	2145.0	2145.0	2118.3	2055.2	2047.9	2021.3
27.5°	2094.0	2098.9	2113.4	2111.0	2113.4	2098.9	2094.0	2084.3	2016.4	2009.1	1989.7
30°	2047.9	2043.1	2030.9	2021.3	2030.9	2043.1	2047.9	2033.3	1965.4	1946.0	1950.8
32.5°	1970.3	1958.2	1946.0	1938.8	1946.0	1958.2	1970.3	1965.4	1914.5	1887.8	1892.6
35°	1878.1	1880.5	1878.1	1870.8	1878.1	1880.5	1878.1	1882.9	1851.4	1827.1	1824.7
37.5°	1812.6	1817.4	1815.0	1805.3	1815.0	1817.4	1812.6	1807.7	1764.0	1756.7	1761.6
40°	1744.6	1747.0	1744.6	1737.3	1744.6	1747.0	1744.6	1734.9	1674.2	1676.6	1693.6
42.5°	1679.1	1676.6	1669.4	1664.5	1669.4	1676.6	1679.1	1664.5	1586.9	1579.6	1611.1
45°	1603.9	1606.3	1591.7	1584.5	1591.7	1606.3	1603.9	1594.1	1514.1	1494.7	1516.5
47.5°	1528.6	1528.6	1516.5	1509.2	1516.5	1528.6	1528.6	1516.5	1431.6	1412.2	1424.3
50°	1448.6	1446.1	1429.2	1426.7	1429.2	1446.1	1448.6	1441.3	1351.5	1334.6	1334.6
52.5°	1356.4	1356.4	1358.8	1363.6	1358.8	1356.4	1356.4	1358.8	1278.7	1261.7	1256.9
55°	1276.3	1278.7	1295.8	1300.5	1295.8	1278.7	1276.3	1276.3	1203.5	1186.5	1176.8
57.5°	1193.9	1193.9	1205.9	1205.9	1205.9	1193.9	1193.9	1189.0	1118.6	1104.0	1099.2
60°	1099.2	1104.0	1113.7	1111.4	1113.7	1104.0	1099.2	1094.3	1033.6	1024.0	1007.0
62.5°	999.7	1004.6	1007.0	1002.1	1007.0	1004.6	999.7	985.2	948.7	941.5	919.6
65°	895.4	900.2	902.7	897.8	902.7	900.2	895.4	888.1	861.4	849.2	829.8
67.5°	788.6	786.1	783.7	793.5	783.7	786.1	788.6	778.9	761.9	752.2	725.5
70°	679.4	679.4	676.9	681.8	676.9	679.4	679.4	672.2	662.4	655.1	630.9
72.5°	562.9	560.5	570.3	562.9	570.3	560.5	562.9	560.5	555.6	548.4	524.1
75°	448.9	453.7	448.9	456.2	448.9	453.7	448.9	451.3	448.9	444.1	427.0
77.5°	342.2	347.0	342.2	342.2	342.2	347.0	342.2	344.5	344.5	344.5	330.0
80°	242.6	240.2	240.2	237.8	240.2	240.2	242.6	242.6	245.0	240.2	235.4
82.5°	155.3	152.9	152.9	157.7	152.9	152.9	155.3	157.7	152.9	152.9	152.9
85°	84.9	87.4	82.5	82.5	82.5	87.4	84.9	80.1	84.9	84.9	82.5
87.5°	31.5	29.2	29.2	29.2	29.2	29.2	31.5	33.9	33.9	33.9	36.4
90°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.3	9.7	10.9	9.4
92.5°	27.2	26.2	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.5	54.0
95°	92.6	89.4	76.2	63.1	76.2	89.4	92.6	121.6	160.3	179.6	151.7
97.5°	213.9	207.6	182.6	157.5	182.6	207.6	213.9	232.2	256.6	268.8	222.3
100°	300.3	292.8	263.1	233.3	263.1	292.8	300.3	298.9	297.1	296.3	244.6
102.5°	374.2	367.8	342.2	316.7	342.2	367.8	374.2	350.8	319.6	304.0	251.6
105°	460.3	456.9	443.2	429.4	443.2	456.9	460.3	407.9	338.0	303.1	252.4
107.5°	505.2	506.0	509.3	512.6	509.3	506.0	505.2	432.1	334.7	285.9	241.2
110°	516.6	520.2	534.5	548.8	534.5	520.2	516.6	435.0	326.1	271.6	231.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	509.3	514.7	536.7	558.7	536.7	514.7	509.3	425.7	314.2	258.5	222.6
115°	484.4	492.1	522.5	553.0	522.5	492.1	484.4	403.9	296.6	242.8	212.5
117.5°	450.1	458.5	492.3	526.1	492.3	458.5	450.1	377.4	280.6	232.1	206.3
120°	427.0	435.3	468.1	500.8	468.1	435.3	427.0	360.6	272.1	227.8	204.3
122.5°	403.9	412.0	444.3	476.7	444.3	412.0	403.9	344.1	264.3	224.5	203.2
125°	373.3	380.8	410.5	440.3	410.5	380.8	373.3	322.6	254.8	220.9	202.3
127.5°	348.7	355.1	380.2	405.3	380.2	355.1	348.7	305.2	246.9	217.9	201.7
130°	333.2	339.0	362.2	385.5	362.2	339.0	333.2	294.4	242.6	216.7	202.0
132.5°	320.0	325.1	346.0	366.8	346.0	325.1	320.0	285.3	238.9	215.8	202.3
135°	301.3	305.8	323.7	341.7	323.7	305.8	301.3	272.3	233.5	214.0	202.1
137.5°	287.6	291.2	305.9	320.5	305.9	291.2	287.6	263.0	230.2	213.8	203.3
140°	276.5	279.9	293.6	307.4	293.6	279.9	276.5	255.3	226.9	212.7	203.5
142.5°	268.7	271.7	283.5	295.3	283.5	271.7	268.7	250.1	225.1	212.7	204.2
145°	257.1	259.3	268.3	277.2	268.3	259.3	257.1	241.8	221.4	211.3	204.2
147.5°	247.3	249.1	256.6	264.0	256.6	249.1	247.3	235.3	219.3	211.3	205.6
150°	241.7	243.2	249.2	255.3	249.2	243.2	241.7	231.5	218.1	211.3	206.4
152.5°	237.3	238.4	242.9	247.5	242.9	238.4	237.3	228.6	217.0	211.3	206.9
155°	231.9	232.7	235.7	238.7	235.7	232.7	231.9	225.0	215.9	211.3	207.9
157.5°	227.3	227.9	230.0	232.1	230.0	227.9	227.3	222.0	214.8	211.3	209.0
160°	225.0	225.3	226.6	227.8	226.6	225.3	225.0	220.5	214.3	211.3	209.5
162.5°	222.9	223.2	224.4	225.5	224.4	223.2	222.9	219.0	213.9	211.3	209.9
165°	219.6	219.9	221.1	222.4	221.1	219.9	219.6	216.8	213.1	211.3	210.7
167.5°	218.2	218.3	218.8	219.3	218.8	218.3	218.2	216.3	214.0	212.7	212.2
170°	218.2	218.2	218.2	218.2	218.2	218.2	218.2	216.3	214.0	212.7	212.7
172.5°	217.0	216.9	216.4	216.1	216.4	216.9	217.0	215.6	213.7	212.7	212.7
175°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	214.5	213.3	212.7	213.0
177.5°	215.2	215.1	214.5	214.0	214.5	215.1	215.2	214.4	213.5	213.0	213.2
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2533.2	2545.4	2552.6	2562.4	2586.6
5°	2436.2	2482.3	2496.8	2533.2	2576.9
7.5°	2222.6	2363.3	2402.1	2489.5	2557.5
10°	2016.4	2157.1	2225.1	2431.3	2533.2
12.5°	1912.0	1994.5	2040.7	2329.4	2499.3
15°	1846.5	1904.7	1938.8	2193.5	2460.5
17.5°	1795.6	1836.9	1861.0	2060.1	2407.0
20°	1764.0	1783.4	1805.3	1963.0	2346.4
22.5°	1742.2	1730.1	1747.0	1895.1	2263.9
25°	1727.6	1681.5	1700.9	1841.6	2166.8
27.5°	1739.7	1637.8	1645.1	1793.2	2064.9
30°	1742.2	1584.5	1586.9	1742.2	1950.8
32.5°	1725.2	1528.6	1531.1	1679.1	1822.2
35°	1684.0	1463.2	1460.7	1606.3	1647.6
37.5°	1628.2	1392.8	1392.8	1526.3	1455.9
40°	1560.2	1322.4	1329.7	1421.9	1286.0
42.5°	1477.7	1247.2	1256.9	1283.6	1159.8
45°	1387.9	1174.4	1181.7	1084.6	1062.8
47.5°	1288.4	1099.2	1101.6	900.2	1031.2
50°	1169.6	1021.5	1011.8	771.6	1028.8
52.5°	1065.2	936.6	907.5	698.8	934.2
55°	963.3	846.8	783.7	643.0	866.2
57.5°	873.5	730.4	669.7	577.5	851.7
60°	791.0	616.3	570.3	507.2	781.3
62.5°	723.1	531.3	521.7	458.6	708.5
65°	650.3	473.1	470.7	417.4	601.8
67.5°	579.9	434.3	431.9	378.5	458.6
70°	504.7	393.1	388.2	337.3	339.7
72.5°	427.0	347.0	342.2	303.3	281.4
75°	349.4	293.6	291.2	264.5	228.1
77.5°	274.2	233.0	237.8	213.6	167.4
80°	196.6	169.9	174.7	152.9	126.2
82.5°	131.1	111.7	116.4	97.0	84.9
85°	72.8	63.1	65.5	51.0	38.8
87.5°	33.9	29.2	29.2	19.4	12.1
90°	6.3	4.0	3.7	2.6	1.4
92.5°	39.0	27.7	25.2	15.5	5.7
95°	95.9	54.0	49.5	31.6	13.8
97.5°	129.2	59.3	55.4	39.6	23.8
100°	141.3	63.8	60.2	45.9	31.6
102.5°	146.8	68.3	64.9	51.6	38.2
105°	151.0	74.9	72.0	60.7	49.4
107.5°	151.7	84.6	81.9	71.4	60.9
110°	150.6	90.1	87.7	78.2	68.6



TEST NUMBER: P934111

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	150.6	96.7	94.4	85.4	76.3
115°	152.0	106.6	104.5	96.2	87.8
117.5°	154.8	116.2	114.2	106.7	99.1
120°	157.2	121.8	120.0	112.9	105.7
122.5°	160.4	128.4	126.6	119.4	112.1
125°	164.9	136.9	135.3	128.7	122.1
127.5°	169.3	145.0	143.4	136.7	130.1
130°	172.6	150.5	148.7	141.6	134.4
132.5°	175.2	155.0	153.2	146.1	138.9
135°	178.1	160.1	158.5	152.0	145.5
137.5°	182.4	166.7	165.1	158.7	152.3
140°	185.1	171.2	169.7	163.8	157.8
142.5°	187.2	174.5	173.1	167.6	162.1
145°	190.1	179.5	178.3	173.5	168.7
147.5°	194.4	185.8	184.7	180.0	175.3
150°	196.6	189.2	188.1	183.8	179.6
152.5°	198.0	191.3	190.5	187.3	184.1
155°	201.1	196.1	195.5	193.1	190.7
157.5°	204.3	200.8	200.2	197.9	195.6
160°	205.7	203.0	202.5	200.8	198.9
162.5°	207.3	205.3	204.9	203.5	202.2
165°	209.5	208.5	208.2	207.0	205.8
167.5°	211.2	210.4	210.2	209.7	209.1
170°	212.6	212.5	212.4	211.8	211.3
172.5°	212.7	212.7	212.7	212.5	212.4
175°	213.6	214.0	214.0	214.0	214.0
177.5°	213.7	214.0	214.0	214.0	214.0
180°	214.0	214.0	214.0	214.0	214.0



TEST NUMBER: P934111
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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	17.02	18.28	17.63	18.90	19.61	19.84	21.10	20.46	21.73	22.44
	3H	17.52	18.66	18.15	19.29	20.04	21.21	22.35	21.84	22.98	23.73
	4H	17.73	18.80	18.38	19.45	20.21	21.68	22.74	22.32	23.39	24.15
	6H	17.87	18.86	18.53	19.52	20.29	21.98	22.96	22.64	23.62	24.40
	8H	17.88	18.82	18.56	19.50	20.28	22.06	23.00	22.74	23.68	24.46
	12H	17.87	18.77	18.55	19.44	20.25	22.11	23.01	22.79	23.69	24.49
4H	2H	18.10	19.16	18.75	19.81	20.57	20.30	21.37	20.95	22.01	22.77
	3H	19.16	20.05	19.82	20.74	21.51	21.84	22.73	22.50	23.41	24.19
	4H	19.45	20.26	20.13	20.95	21.76	22.38	23.19	23.06	23.88	24.69
	6H	19.60	20.30	20.30	21.01	21.84	22.77	23.47	23.47	24.18	25.01
	8H	19.61	20.27	20.32	20.98	21.81	22.88	23.54	23.59	24.25	25.08
	12H	19.60	20.19	20.33	20.93	21.76	22.96	23.55	23.68	24.28	25.12
8H	4H	19.94	20.59	20.64	21.30	22.14	22.54	23.19	23.24	23.91	24.74
	6H	20.21	20.76	20.95	21.51	22.35	22.99	23.53	23.73	24.29	25.12
	8H	20.26	20.74	21.01	21.50	22.35	23.14	23.63	23.89	24.39	25.24
	12H	20.26	20.69	21.01	21.44	22.35	23.26	23.69	24.01	24.43	25.35
12H	4H	19.96	20.55	20.69	21.29	22.12	22.52	23.11	23.25	23.85	24.69
	6H	20.28	20.76	21.03	21.52	22.37	22.99	23.47	23.74	24.23	25.08
	8H	20.36	20.79	21.11	21.54	22.45	23.17	23.60	23.92	24.34	25.26