

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: P934473

Luminaire Tested: SQ4-FA-050U-100D-940-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

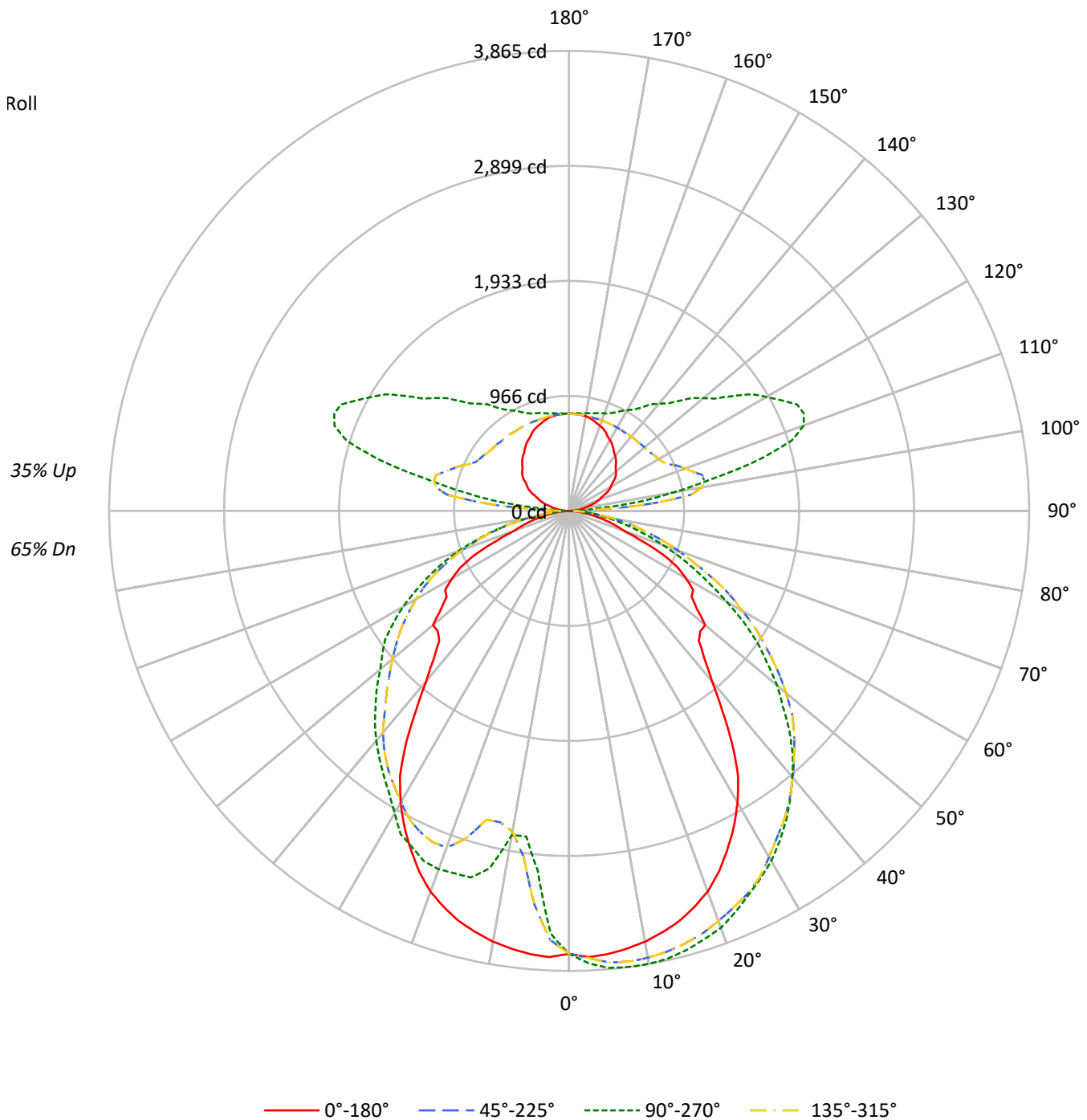
Test Method: LM-79-2019  
Report Number: P934473  
REPORT IS A COMBINATION OF REPORTS P933697 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14953.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 135.6  
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





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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

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

	0°	90°	180°	270°
0°	11507	11507	11507	11507
5°	11598	11616	11598	9134
10°	11524	11443	11524	8181
15°	11403	11195	11403	9348
20°	11169	10901	11169	9367
25°	10686	10473	10686	9169
30°	10059	10117	10059	8733
35°	8972	9667	8972	8254
40°	7480	9138	7480	7892
45°	6688	8518	6688	7476
50°	7111	7779	7111	7059
55°	6696	6982	6696	6817
60°	6912	5930	6912	6244
65°	6276	4902	6276	5479
70°	4357	3906	4357	4593
75°	3835	2888	3835	3458
80°	3113	1909	3113	2079
85°	1824	1011	1824	860

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10244 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.8	2.2
10°-20°	953.5	6.4
20°-30°	1474.0	9.9
30°-40°	1759.6	11.8
40°-50°	1769.9	11.8
50°-60°	1540.0	10.3
60°-70°	1091.9	7.3
70°-80°	577.7	3.9
80°-90°	147.0	1.0
90°-100°	398.8	2.7
100°-110°	1048.4	7.0
110°-120°	1087.1	7.3
120°-130°	872.0	5.8
130°-140°	684.2	4.6
140°-150°	525.2	3.5
150°-160°	378.2	2.5
160°-170°	231.4	1.5
170°-180°	78.2	0.5
0°-30°	2763.3	18.5
0°-40°	4522.9	30.2
0°-60°	7832.9	52.4
0°-90°	9649.5	64.5
90°-120°	2534.3	16.9
90°-150°	4615.7	30.9
90°-180°	5304.0	35.5
0°-180°	14953.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3720	3720	3720	3720	3720	
5°	3738	3854	3738	3031	3738	355
15°	3569	3819	3569	3189	3569	1004
25°	3143	3562	3143	3118	3143	1443
35°	2390	3178	2390	2714	2390	1479
45°	1542	2619	1542	2298	1542	1235
55°	1256	1932	1256	1887	1256	1155
65°	873	1165	873	1302	873	834
75°	331	553	331	662	331	348
85°	56	141	56	120	56	76
90°	6	21	6	21	6	7
95°	53	241	53	241	53	59
105°	189	1642	189	1642	189	200
115°	336	2114	336	2114	336	331
125°	467	1684	467	1684	467	414
135°	556	1306	556	1306	556	430
145°	645	1060	645	1060	645	404
155°	729	913	729	913	729	335
165°	787	850	787	850	787	222
175°	818	824	818	824	818	78
180°	818	818	818	818	818	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3752.1	3752.1	3773.2	3780.2	3780.2	3769.6	3759.1	3769.6	3801.4	3811.9	3808.4
5°	3738.0	3766.2	3804.9	3811.9	3818.9	3815.5	3808.4	3815.5	3850.6	3857.6	3861.2
7.5°	3709.8	3762.6	3811.9	3822.5	3833.1	3822.5	3818.9	3826.0	3861.2	3868.2	3868.2
10°	3674.6	3748.6	3804.9	3811.9	3822.5	3811.9	3811.9	3826.0	3861.2	3868.2	3871.8
12.5°	3625.3	3727.5	3780.2	3787.3	3801.4	3797.8	3794.3	3808.4	3843.6	3850.6	3850.6
15°	3569.0	3688.8	3738.0	3745.1	3769.6	3762.6	3762.6	3776.8	3815.5	3826.0	3822.5
17.5°	3491.6	3639.5	3695.8	3706.3	3723.9	3720.4	3723.9	3738.0	3773.2	3780.2	3783.8
20°	3403.6	3572.6	3639.5	3650.0	3667.6	3667.6	3667.6	3685.2	3720.4	3734.5	3734.5
22.5°	3283.9	3502.2	3572.6	3579.6	3600.8	3600.8	3607.8	3632.4	3664.1	3667.6	3667.6
25°	3143.2	3424.7	3484.6	3505.7	3526.8	3537.3	3547.9	3562.0	3572.6	3569.0	3572.6
27.5°	2995.3	3326.2	3403.6	3417.7	3445.9	3456.5	3470.5	3474.0	3477.5	3488.1	3481.0
30°	2829.9	3188.9	3305.0	3319.2	3364.9	3371.9	3357.9	3364.9	3382.5	3389.6	3396.6
32.5°	2643.3	2984.7	3203.0	3234.6	3276.9	3255.8	3252.3	3262.9	3291.0	3291.0	3298.0
35°	2390.0	2826.4	3108.0	3136.1	3167.8	3143.2	3157.2	3160.7	3178.3	3188.9	3185.4
37.5°	2111.8	2689.1	3009.4	3030.6	3055.2	3023.5	3044.6	3055.2	3069.3	3062.2	3062.2
40°	1865.5	2474.4	2893.3	2907.3	2928.4	2903.8	2924.9	2932.0	2939.0	2932.0	2928.4
42.5°	1682.5	2238.6	2770.0	2787.7	2773.6	2791.2	2798.2	2812.3	2801.7	2787.7	2787.7
45°	1541.7	2175.2	2636.3	2657.4	2636.3	2664.4	2675.0	2675.0	2643.3	2636.3	2632.8
47.5°	1495.9	2048.5	2502.6	2502.6	2492.0	2527.2	2544.8	2520.1	2488.4	2478.0	2478.0
50°	1492.4	1907.7	2319.5	2305.4	2354.7	2397.0	2379.4	2354.7	2330.1	2291.4	2291.4
52.5°	1355.1	1735.2	2083.7	2136.5	2214.0	2238.6	2210.4	2185.8	2143.5	2126.0	2111.8
55°	1256.5	1555.8	1869.0	1974.6	2055.5	2087.2	2034.4	2009.8	1946.4	1935.8	1928.8
57.5°	1235.5	1295.2	1671.9	1805.7	1904.2	1900.7	1869.0	1823.2	1770.4	1759.9	1756.4
60°	1133.4	936.2	1460.7	1619.1	1721.2	1710.6	1682.5	1640.2	1590.9	1583.9	1576.8
62.5°	1027.8	679.3	1221.4	1400.9	1545.2	1541.7	1517.1	1453.7	1418.5	1400.9	1386.8
65°	872.9	570.2	869.4	1165.1	1372.7	1379.8	1326.9	1281.2	1242.5	1221.4	1217.8
67.5°	665.2	464.6	587.8	971.5	1207.3	1200.2	1133.4	1112.2	1062.9	1052.4	1031.3
70°	492.8	309.7	408.3	788.5	1045.4	1027.8	974.9	950.3	904.6	879.9	865.9
72.5°	408.3	249.9	299.2	612.5	879.9	858.8	813.1	784.9	746.2	725.1	711.0
75°	330.9	264.0	228.7	454.0	714.5	700.5	658.2	630.0	598.3	570.2	573.7
77.5°	242.9	246.4	183.0	334.4	566.7	545.6	520.9	485.7	471.6	443.5	443.5
80°	183.0	193.6	137.3	228.7	408.3	408.3	387.2	362.6	337.9	323.9	323.9
82.5°	123.2	123.2	102.0	144.3	278.0	267.5	253.4	246.4	232.3	225.3	225.3
85°	56.3	70.4	63.3	88.0	151.3	158.4	158.4	151.3	147.9	140.7	144.3
87.5°	17.6	31.7	38.7	49.3	77.4	81.0	84.4	84.4	84.4	88.0	88.0
90°	5.5	9.9	14.3	15.4	24.2	35.9	41.7	37.1	27.8	20.9	20.9
92.5°	21.9	59.2	96.6	105.9	148.9	206.3	235.0	205.9	147.9	104.3	100.2
95°	52.7	121.0	189.4	206.5	366.6	580.1	686.9	612.9	465.0	354.1	341.5
97.5°	91.1	151.4	211.7	226.8	493.8	849.8	1027.9	981.2	887.6	817.6	793.7
100°	120.8	175.5	230.1	243.8	540.1	935.2	1132.7	1136.1	1142.9	1148.1	1119.6
102.5°	146.1	197.0	248.0	260.8	561.3	962.1	1162.4	1221.9	1341.0	1430.3	1405.9
105°	188.9	232.0	275.2	286.0	577.0	965.1	1159.1	1292.6	1559.5	1759.7	1746.6
107.5°	232.8	273.1	313.4	323.4	580.0	922.2	1093.2	1279.4	1651.9	1931.1	1934.3
110°	262.5	298.8	335.2	344.3	575.6	884.1	1038.3	1246.5	1662.8	1975.0	1988.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	291.5	326.2	360.8	369.5	575.8	850.8	988.3	1201.4	1627.4	1947.0	1968.0
115°	335.5	367.5	399.4	407.4	581.1	812.7	928.5	1133.7	1544.1	1852.0	1881.1
117.5°	378.8	407.9	436.9	444.2	591.9	788.8	887.3	1072.5	1442.9	1720.8	1753.0
120°	404.1	431.5	458.7	465.6	600.6	780.8	870.9	1040.1	1378.5	1632.4	1663.8
122.5°	428.8	456.4	484.0	490.9	613.3	776.6	858.2	1010.5	1315.4	1544.0	1574.9
125°	466.7	491.9	517.0	523.3	630.4	773.1	844.5	974.0	1232.8	1427.0	1455.5
127.5°	497.5	522.9	548.3	554.6	647.4	771.1	832.9	944.1	1166.4	1333.2	1357.2
130°	514.0	541.3	568.6	575.4	659.8	772.3	828.6	927.5	1125.5	1273.8	1296.0
132.5°	530.9	558.3	585.6	592.5	669.9	773.1	824.7	913.3	1090.5	1223.3	1243.2
135°	556.2	581.1	606.0	612.2	680.8	772.4	818.1	892.4	1040.7	1152.0	1169.1
137.5°	582.0	606.7	631.4	637.5	697.3	777.2	817.0	879.7	1005.2	1099.3	1113.3
140°	603.4	626.1	648.8	654.5	707.4	777.9	813.1	867.3	975.7	1057.0	1070.1
142.5°	619.9	640.9	661.9	667.2	715.8	780.7	813.1	860.7	955.9	1027.3	1038.6
145°	645.1	663.4	681.7	686.3	726.8	780.7	807.7	846.6	924.5	982.8	991.4
147.5°	670.4	688.2	706.0	710.5	742.9	786.1	807.7	838.4	899.6	945.5	952.6
150°	686.9	702.9	719.1	723.1	751.3	788.9	807.7	833.6	885.2	924.1	929.8
152.5°	703.9	716.1	728.3	731.4	756.8	790.8	807.7	829.8	874.0	907.1	911.4
155°	729.1	738.2	747.3	749.5	768.9	794.8	807.7	825.3	860.4	886.8	889.6
157.5°	747.9	756.7	765.4	767.6	781.0	798.8	807.7	821.4	848.7	869.2	871.2
160°	760.5	767.3	774.2	775.8	786.5	800.6	807.7	819.4	842.8	860.4	861.5
162.5°	773.1	778.2	783.4	784.6	792.4	802.6	807.7	817.6	837.3	852.1	853.2
165°	786.9	791.5	796.1	797.2	800.7	805.4	807.7	814.8	828.9	839.5	840.7
167.5°	799.5	801.6	803.8	804.4	807.3	811.2	813.1	817.8	827.1	834.0	834.5
170°	807.7	809.9	812.1	812.6	812.8	813.1	813.1	817.8	827.1	834.0	834.0
172.5°	812.1	812.5	813.1	813.1	813.1	813.1	813.1	816.8	824.2	829.7	829.2
175°	818.1	818.1	818.1	818.1	816.4	814.2	813.1	815.5	820.2	823.6	823.6
177.5°	818.1	818.1	818.1	818.1	816.9	815.2	814.3	816.2	819.8	822.6	822.0
180°	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3815.5	3804.9	3815.5	3808.4	3811.9	3801.4	3769.6	3759.1	3769.6	3780.2	3780.2
5°	3861.2	3854.2	3861.2	3861.2	3857.6	3850.6	3815.5	3808.4	3815.5	3818.9	3811.9
7.5°	3875.2	3864.8	3875.2	3868.2	3868.2	3861.2	3826.0	3818.9	3822.5	3833.1	3822.5
10°	3875.2	3864.8	3875.2	3871.8	3868.2	3861.2	3826.0	3811.9	3811.9	3822.5	3811.9
12.5°	3857.6	3850.6	3857.6	3850.6	3850.6	3843.6	3808.4	3794.3	3797.8	3801.4	3787.3
15°	3829.5	3818.9	3829.5	3822.5	3826.0	3815.5	3776.8	3762.6	3762.6	3769.6	3745.1
17.5°	3787.3	3773.2	3787.3	3783.8	3780.2	3773.2	3738.0	3723.9	3720.4	3723.9	3706.3
20°	3738.0	3727.5	3738.0	3734.5	3734.5	3720.4	3685.2	3667.6	3667.6	3667.6	3650.0
22.5°	3660.6	3650.0	3660.6	3667.6	3667.6	3664.1	3632.4	3607.8	3600.8	3600.8	3579.6
25°	3572.6	3562.0	3572.6	3572.6	3569.0	3572.6	3562.0	3547.9	3537.3	3526.8	3505.7
27.5°	3488.1	3481.0	3488.1	3481.0	3488.1	3477.5	3474.0	3470.5	3456.5	3445.9	3417.7
30°	3403.6	3396.6	3403.6	3396.6	3389.6	3382.5	3364.9	3357.9	3371.9	3364.9	3319.2
32.5°	3298.0	3291.0	3298.0	3298.0	3291.0	3291.0	3262.9	3252.3	3255.8	3276.9	3234.6
35°	3188.9	3178.3	3188.9	3185.4	3188.9	3178.3	3160.7	3157.2	3143.2	3167.8	3136.1
37.5°	3062.2	3051.6	3062.2	3062.2	3062.2	3069.3	3055.2	3044.6	3023.5	3055.2	3030.6
40°	2932.0	2917.9	2932.0	2928.4	2932.0	2939.0	2932.0	2924.9	2903.8	2928.4	2907.3
42.5°	2784.1	2780.6	2784.1	2787.7	2787.7	2801.7	2812.3	2798.2	2791.2	2773.6	2787.7
45°	2625.7	2618.7	2625.7	2632.8	2636.3	2643.3	2675.0	2675.0	2664.4	2636.3	2657.4
47.5°	2456.8	2439.2	2456.8	2478.0	2478.0	2488.4	2520.1	2544.8	2527.2	2492.0	2502.6
50°	2277.3	2280.8	2277.3	2291.4	2291.4	2330.1	2354.7	2379.4	2397.0	2354.7	2305.4
52.5°	2101.3	2097.8	2101.3	2111.8	2126.0	2143.5	2185.8	2210.4	2238.6	2214.0	2136.5
55°	1925.3	1932.4	1925.3	1928.8	1935.8	1946.4	2009.8	2034.4	2087.2	2055.5	1974.6
57.5°	1749.4	1738.8	1749.4	1756.4	1759.9	1770.4	1823.2	1869.0	1900.7	1904.2	1805.7
60°	1545.2	1531.1	1545.2	1576.8	1583.9	1590.9	1640.2	1682.5	1710.6	1721.2	1619.1
62.5°	1365.7	1341.1	1365.7	1386.8	1400.9	1418.5	1453.7	1517.1	1541.7	1545.2	1400.9
65°	1175.6	1165.1	1175.6	1217.8	1221.4	1242.5	1281.2	1326.9	1379.8	1372.7	1165.1
67.5°	1003.2	1003.2	1003.2	1031.3	1052.4	1062.9	1112.2	1133.4	1200.2	1207.3	971.5
70°	844.8	841.2	844.8	865.9	879.9	904.6	950.3	974.9	1027.8	1045.4	788.5
72.5°	693.4	689.9	693.4	711.0	725.1	746.2	784.9	813.1	858.8	879.9	612.5
75°	559.6	552.6	559.6	573.7	570.2	598.3	630.0	658.2	700.5	714.5	454.0
77.5°	429.4	429.4	429.4	443.5	443.5	471.6	485.7	520.9	545.6	566.7	334.4
80°	320.3	316.7	320.3	323.9	323.9	337.9	362.6	387.2	408.3	408.3	228.7
82.5°	225.3	218.2	225.3	225.3	225.3	232.3	246.4	253.4	267.5	278.0	144.3
85°	140.7	140.7	140.7	144.3	140.7	147.9	151.3	158.4	158.4	151.3	88.0
87.5°	91.6	88.0	91.6	88.0	88.0	84.4	84.4	84.4	81.0	77.4	49.3
90°	20.9	20.9	20.9	20.9	20.9	27.8	37.1	41.7	35.9	24.2	15.4
92.5°	83.6	67.0	83.6	100.2	104.3	147.9	205.9	235.0	206.3	148.9	105.9
95°	291.3	241.0	291.3	341.5	354.1	465.0	612.9	686.9	580.1	366.6	206.5
97.5°	698.0	602.3	698.0	793.7	817.6	887.6	981.2	1027.9	849.8	493.8	226.8
100°	1005.7	891.7	1005.7	1119.6	1148.1	1142.9	1136.1	1132.7	935.2	540.1	243.8
102.5°	1308.3	1210.7	1308.3	1405.9	1430.3	1341.0	1221.9	1162.4	962.1	561.3	260.8
105°	1694.2	1641.7	1694.2	1746.6	1759.7	1559.5	1292.6	1159.1	965.1	577.0	286.0
107.5°	1946.9	1959.6	1946.9	1934.3	1931.1	1651.9	1279.4	1093.2	922.2	580.0	323.4
110°	2043.3	2098.0	2043.3	1988.7	1975.0	1662.8	1246.5	1038.3	884.1	575.6	344.3





TEST NUMBER: P934473

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2052.0	2135.9	2052.0	1968.0	1947.0	1627.4	1201.4	988.3	850.8	575.8	369.5
115°	1997.6	2114.0	1997.6	1881.1	1852.0	1544.1	1133.7	928.5	812.7	581.1	407.4
117.5°	1882.1	2011.2	1882.1	1753.0	1720.8	1442.9	1072.5	887.3	788.8	591.9	444.2
120°	1789.2	1914.6	1789.2	1663.8	1632.4	1378.5	1040.1	870.9	780.8	600.6	465.6
122.5°	1698.7	1822.4	1698.7	1574.9	1544.0	1315.4	1010.5	858.2	776.6	613.3	490.9
125°	1569.5	1683.5	1569.5	1455.5	1427.0	1232.8	974.0	844.5	773.1	630.4	523.3
127.5°	1453.3	1549.5	1453.3	1357.2	1333.2	1166.4	944.1	832.9	771.1	647.4	554.6
130°	1384.9	1473.7	1384.9	1296.0	1273.8	1125.5	927.5	828.6	772.3	659.8	575.4
132.5°	1322.8	1402.3	1322.8	1243.2	1223.3	1090.5	913.3	824.7	773.1	669.9	592.5
135°	1237.7	1306.2	1237.7	1169.1	1152.0	1040.7	892.4	818.1	772.4	680.8	612.2
137.5°	1169.4	1225.5	1169.4	1113.3	1099.3	1005.2	879.7	817.0	777.2	697.3	637.5
140°	1122.5	1175.0	1122.5	1070.1	1057.0	975.7	867.3	813.1	777.9	707.4	654.5
142.5°	1083.8	1128.9	1083.8	1038.6	1027.3	955.9	860.7	813.1	780.7	715.8	667.2
145°	1025.6	1059.7	1025.6	991.4	982.8	924.5	846.6	807.7	780.7	726.8	686.3
147.5°	980.9	1009.2	980.9	952.6	945.5	899.6	838.4	807.7	786.1	742.9	710.5
150°	952.7	975.7	952.7	929.8	924.1	885.2	833.6	807.7	788.9	751.3	723.1
152.5°	928.8	946.1	928.8	911.4	907.1	874.0	829.8	807.7	790.8	756.8	731.4
155°	901.1	912.6	901.1	889.6	886.8	860.4	825.3	807.7	794.8	768.9	749.5
157.5°	879.2	887.3	879.2	871.2	869.2	848.7	821.4	807.7	798.8	781.0	767.6
160°	866.2	870.9	866.2	861.5	860.4	842.8	819.4	807.7	800.6	786.5	775.8
162.5°	857.6	862.1	857.6	853.2	852.1	837.3	817.6	807.7	802.6	792.4	784.6
165°	845.4	850.0	845.4	840.7	839.5	828.9	814.8	807.7	805.4	800.7	797.2
167.5°	836.5	838.4	836.5	834.5	834.0	827.1	817.8	813.1	811.2	807.3	804.4
170°	834.0	834.0	834.0	834.0	834.0	827.1	817.8	813.1	813.1	812.8	812.6
172.5°	827.5	825.8	827.5	829.2	829.7	824.2	816.8	813.1	813.1	813.1	813.1
175°	823.6	823.6	823.6	823.6	823.6	820.2	815.5	813.1	814.2	816.4	818.1
177.5°	820.1	818.1	820.1	822.0	822.6	819.8	816.2	814.3	815.2	816.9	818.1
180°	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1



TEST NUMBER: P934473

CATALOG NUMBER: SQ4-FA-050U-100D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3773.2	3752.1	3752.1	3716.9	3702.8	3692.2	3674.6	3621.9	3607.8	3593.6	3614.8
5°	3804.9	3766.2	3738.0	3674.6	3621.9	3600.8	3533.9	3407.2	3322.6	3259.3	3224.2
7.5°	3811.9	3762.6	3709.8	3611.3	3484.6	3428.3	3224.2	2991.8	2928.4	2872.1	2836.9
10°	3804.9	3748.6	3674.6	3526.8	3227.6	3129.0	2924.9	2773.6	2734.9	2724.3	2734.9
12.5°	3780.2	3727.5	3625.3	3379.0	2960.1	2893.3	2773.6	2685.6	2678.6	2696.1	2791.2
15°	3738.0	3688.8	3569.0	3181.9	2812.3	2763.0	2678.6	2646.9	2685.6	2808.7	3093.9
17.5°	3695.8	3639.5	3491.6	2988.3	2699.7	2664.4	2604.6	2668.0	2886.2	3051.6	3146.7
20°	3639.5	3572.6	3403.6	2847.5	2618.7	2587.0	2558.9	2844.0	3009.4	3069.3	3122.0
22.5°	3572.6	3502.2	3283.9	2749.0	2534.3	2509.6	2527.2	2942.6	3009.4	3051.6	3097.4
25°	3484.6	3424.7	3143.2	2671.5	2467.4	2439.2	2506.1	2932.0	2970.7	2981.3	3072.7
27.5°	3403.6	3326.2	2995.3	2601.1	2386.4	2375.8	2523.7	2886.2	2914.4	2924.9	3023.5
30°	3305.0	3188.9	2829.9	2527.2	2302.0	2298.4	2527.2	2829.9	2822.9	2851.0	2949.6
32.5°	3203.0	2984.7	2643.3	2435.7	2221.0	2217.4	2502.6	2745.4	2738.4	2777.1	2851.0
35°	3108.0	2826.4	2390.0	2330.1	2118.9	2122.4	2442.7	2646.9	2650.4	2685.6	2731.3
37.5°	3009.4	2689.1	2111.8	2214.0	2020.4	2020.4	2361.7	2555.4	2548.3	2558.9	2622.3
40°	2893.3	2474.4	1865.5	2062.6	1928.8	1918.3	2263.2	2456.8	2432.1	2428.7	2516.7
42.5°	2770.0	2238.6	1682.5	1862.0	1823.2	1809.1	2143.5	2337.1	2291.4	2302.0	2414.6
45°	2636.3	2175.2	1541.7	1573.4	1714.1	1703.5	2013.3	2199.8	2168.1	2196.4	2312.5
47.5°	2502.6	2048.5	1495.9	1305.8	1598.0	1594.5	1869.0	2066.1	2048.5	2076.7	2199.8
50°	2319.5	1907.7	1492.4	1119.3	1467.8	1481.8	1696.5	1935.8	1935.8	1960.5	2090.7
52.5°	2083.7	1735.2	1355.1	1013.7	1316.4	1358.6	1545.2	1823.2	1830.3	1854.9	1971.1
55°	1869.0	1555.8	1256.5	932.8	1136.9	1228.4	1397.4	1707.1	1721.2	1745.8	1851.4
57.5°	1671.9	1295.2	1235.5	837.7	971.5	1059.5	1267.1	1594.5	1601.5	1622.6	1724.7
60°	1460.7	936.2	1133.4	735.6	827.2	894.0	1147.5	1460.7	1485.4	1499.4	1587.4
62.5°	1221.4	679.3	1027.8	665.2	756.8	770.9	1048.9	1334.0	1365.7	1376.2	1429.1
65°	869.4	570.2	872.9	605.4	682.9	686.3	943.3	1203.8	1231.9	1249.5	1288.2
67.5°	587.8	464.6	665.2	549.1	626.5	630.0	841.2	1052.4	1091.1	1105.2	1129.9
70°	408.3	309.7	492.8	489.3	563.2	570.2	732.2	915.2	950.3	960.9	974.9
72.5°	299.2	249.9	408.3	440.0	496.3	503.3	619.5	760.3	795.5	806.0	813.1
75°	228.7	264.0	330.9	383.6	422.3	425.9	506.9	619.5	644.2	651.2	654.6
77.5°	183.0	246.4	242.9	309.7	344.9	337.9	397.7	478.7	499.8	499.8	499.8
80°	137.3	193.6	183.0	221.7	253.4	246.4	285.1	341.4	348.5	355.5	352.0
82.5°	102.0	123.2	123.2	140.7	169.0	161.9	190.0	221.7	221.7	221.7	228.7
85°	63.3	70.4	56.3	73.9	95.0	91.6	105.6	119.7	123.2	123.2	116.2
87.5°	38.7	31.7	17.6	28.1	42.3	42.3	49.3	52.8	49.3	49.3	49.3
90°	14.3	9.9	5.5	9.9	14.3	15.4	24.2	35.9	41.7	37.1	27.8
92.5°	96.6	59.2	21.9	59.2	96.6	105.9	148.9	206.3	235.0	205.9	147.9
95°	189.4	121.0	52.7	121.0	189.4	206.5	366.6	580.1	686.9	612.9	465.0
97.5°	211.7	151.4	91.1	151.4	211.7	226.8	493.8	849.8	1027.9	981.2	887.6
100°	230.1	175.5	120.8	175.5	230.1	243.8	540.1	935.2	1132.7	1136.1	1142.9
102.5°	248.0	197.0	146.1	197.0	248.0	260.8	561.3	962.1	1162.4	1221.9	1341.0
105°	275.2	232.0	188.9	232.0	275.2	286.0	577.0	965.1	1159.1	1292.6	1559.5
107.5°	313.4	273.1	232.8	273.1	313.4	323.4	580.0	922.2	1093.2	1279.4	1651.9
110°	335.2	298.8	262.5	298.8	335.2	344.3	575.6	884.1	1038.3	1246.5	1662.8



TEST NUMBER: P934473

CATALOG NUMBER: SQ4-FA-050U-100D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	360.8	326.2	291.5	326.2	360.8	369.5	575.8	850.8	988.3	1201.4	1627.4
115°	399.4	367.5	335.5	367.5	399.4	407.4	581.1	812.7	928.5	1133.7	1544.1
117.5°	436.9	407.9	378.8	407.9	436.9	444.2	591.9	788.8	887.3	1072.5	1442.9
120°	458.7	431.5	404.1	431.5	458.7	465.6	600.6	780.8	870.9	1040.1	1378.5
122.5°	484.0	456.4	428.8	456.4	484.0	490.9	613.3	776.6	858.2	1010.5	1315.4
125°	517.0	491.9	466.7	491.9	517.0	523.3	630.4	773.1	844.5	974.0	1232.8
127.5°	548.3	522.9	497.5	522.9	548.3	554.6	647.4	771.1	832.9	944.1	1166.4
130°	568.6	541.3	514.0	541.3	568.6	575.4	659.8	772.3	828.6	927.5	1125.5
132.5°	585.6	558.3	530.9	558.3	585.6	592.5	669.9	773.1	824.7	913.3	1090.5
135°	606.0	581.1	556.2	581.1	606.0	612.2	680.8	772.4	818.1	892.4	1040.7
137.5°	631.4	606.7	582.0	606.7	631.4	637.5	697.3	777.2	817.0	879.7	1005.2
140°	648.8	626.1	603.4	626.1	648.8	654.5	707.4	777.9	813.1	867.3	975.7
142.5°	661.9	640.9	619.9	640.9	661.9	667.2	715.8	780.7	813.1	860.7	955.9
145°	681.7	663.4	645.1	663.4	681.7	686.3	726.8	780.7	807.7	846.6	924.5
147.5°	706.0	688.2	670.4	688.2	706.0	710.5	742.9	786.1	807.7	838.4	899.6
150°	719.1	702.9	686.9	702.9	719.1	723.1	751.3	788.9	807.7	833.6	885.2
152.5°	728.3	716.1	703.9	716.1	728.3	731.4	756.8	790.8	807.7	829.8	874.0
155°	747.3	738.2	729.1	738.2	747.3	749.5	768.9	794.8	807.7	825.3	860.4
157.5°	765.4	756.7	747.9	756.7	765.4	767.6	781.0	798.8	807.7	821.4	848.7
160°	774.2	767.3	760.5	767.3	774.2	775.8	786.5	800.6	807.7	819.4	842.8
162.5°	783.4	778.2	773.1	778.2	783.4	784.6	792.4	802.6	807.7	817.6	837.3
165°	796.1	791.5	786.9	791.5	796.1	797.2	800.7	805.4	807.7	814.8	828.9
167.5°	803.8	801.6	799.5	801.6	803.8	804.4	807.3	811.2	813.1	817.8	827.1
170°	812.1	809.9	807.7	809.9	812.1	812.6	812.8	813.1	813.1	817.8	827.1
172.5°	813.1	812.5	812.1	812.5	813.1	813.1	813.1	813.1	813.1	816.8	824.2
175°	818.1	818.1	818.1	818.1	818.1	818.1	816.4	814.2	813.1	815.5	820.2
177.5°	818.1	818.1	818.1	818.1	818.1	818.1	816.9	815.2	814.3	816.2	819.8
180°	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1



TEST NUMBER: P934473

CATALOG NUMBER: SQ4-FA-050U-100D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3590.2	3579.6	3593.6	3554.9	3593.6	3579.6	3590.2	3614.8	3593.6	3607.8	3621.9
5°	3150.2	3132.6	3076.3	3030.6	3076.3	3132.6	3150.2	3224.2	3259.3	3322.6	3407.2
7.5°	2815.8	2801.7	2787.7	2759.5	2787.7	2801.7	2815.8	2836.9	2872.1	2928.4	2991.8
10°	2741.9	2745.4	2766.6	2763.0	2766.6	2745.4	2741.9	2734.9	2724.3	2734.9	2773.6
12.5°	2932.0	2963.6	3079.8	3072.7	3079.8	2963.6	2932.0	2791.2	2696.1	2678.6	2685.6
15°	3150.2	3160.7	3185.4	3188.9	3185.4	3160.7	3150.2	3093.9	2808.7	2685.6	2646.9
17.5°	3171.3	3174.9	3192.4	3192.4	3192.4	3174.9	3171.3	3146.7	3051.6	2886.2	2668.0
20°	3153.7	3160.7	3195.9	3203.0	3195.9	3160.7	3153.7	3122.0	3069.3	3009.4	2844.0
22.5°	3146.7	3160.7	3188.9	3185.4	3188.9	3160.7	3146.7	3097.4	3051.6	3009.4	2942.6
25°	3111.5	3111.5	3115.0	3118.5	3115.0	3111.5	3111.5	3072.7	2981.3	2970.7	2932.0
27.5°	3037.6	3044.6	3065.7	3062.2	3065.7	3044.6	3037.6	3023.5	2924.9	2914.4	2886.2
30°	2970.7	2963.6	2946.0	2932.0	2946.0	2963.6	2970.7	2949.6	2851.0	2822.9	2829.9
32.5°	2858.0	2840.4	2822.9	2812.3	2822.9	2840.4	2858.0	2851.0	2777.1	2738.4	2745.4
35°	2724.3	2727.8	2724.3	2713.7	2724.3	2727.8	2724.3	2731.3	2685.6	2650.4	2646.9
37.5°	2629.3	2636.3	2632.8	2618.7	2632.8	2636.3	2629.3	2622.3	2558.9	2548.3	2555.4
40°	2530.7	2534.3	2530.7	2520.1	2530.7	2534.3	2530.7	2516.7	2428.7	2432.1	2456.8
42.5°	2435.7	2432.1	2421.6	2414.6	2421.6	2432.1	2435.7	2414.6	2302.0	2291.4	2337.1
45°	2326.6	2330.1	2309.0	2298.4	2309.0	2330.1	2326.6	2312.5	2196.4	2168.1	2199.8
47.5°	2217.4	2217.4	2199.8	2189.3	2199.8	2217.4	2217.4	2199.8	2076.7	2048.5	2066.1
50°	2101.3	2097.8	2073.1	2069.7	2073.1	2097.8	2101.3	2090.7	1960.5	1935.8	1935.8
52.5°	1967.5	1967.5	1971.1	1978.1	1971.1	1967.5	1967.5	1971.1	1854.9	1830.3	1823.2
55°	1851.4	1854.9	1879.5	1886.6	1879.5	1854.9	1851.4	1851.4	1745.8	1721.2	1707.1
57.5°	1731.7	1731.7	1749.4	1749.4	1749.4	1731.7	1731.7	1724.7	1622.6	1601.5	1594.5
60°	1594.5	1601.5	1615.5	1612.1	1615.5	1601.5	1594.5	1587.4	1499.4	1485.4	1460.7
62.5°	1450.1	1457.2	1460.7	1453.7	1460.7	1457.2	1450.1	1429.1	1376.2	1365.7	1334.0
65°	1298.8	1305.8	1309.4	1302.3	1309.4	1305.8	1298.8	1288.2	1249.5	1231.9	1203.8
67.5°	1143.9	1140.4	1136.9	1150.9	1136.9	1140.4	1143.9	1129.9	1105.2	1091.1	1052.4
70°	985.5	985.5	982.0	989.1	982.0	985.5	985.5	974.9	960.9	950.3	915.2
72.5°	816.6	813.1	827.2	816.6	827.2	813.1	816.6	813.1	806.0	795.5	760.3
75°	651.2	658.2	651.2	661.7	651.2	658.2	651.2	654.6	651.2	644.2	619.5
77.5°	496.3	503.3	496.3	496.3	496.3	503.3	496.3	499.8	499.8	499.8	478.7
80°	352.0	348.5	348.5	344.9	348.5	348.5	352.0	352.0	355.5	348.5	341.4
82.5°	225.3	221.7	221.7	228.7	221.7	221.7	225.3	228.7	221.7	221.7	221.7
85°	123.2	126.7	119.7	119.7	119.7	126.7	123.2	116.2	123.2	123.2	119.7
87.5°	45.7	42.3	42.3	42.3	42.3	42.3	45.7	49.3	49.3	49.3	52.8
90°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	27.8	37.1	41.7	35.9
92.5°	104.3	100.2	83.6	67.0	83.6	100.2	104.3	147.9	205.9	235.0	206.3
95°	354.1	341.5	291.3	241.0	291.3	341.5	354.1	465.0	612.9	686.9	580.1
97.5°	817.6	793.7	698.0	602.3	698.0	793.7	817.6	887.6	981.2	1027.9	849.8
100°	1148.1	1119.6	1005.7	891.7	1005.7	1119.6	1148.1	1142.9	1136.1	1132.7	935.2
102.5°	1430.3	1405.9	1308.3	1210.7	1308.3	1405.9	1430.3	1341.0	1221.9	1162.4	962.1
105°	1759.7	1746.6	1694.2	1641.7	1694.2	1746.6	1759.7	1559.5	1292.6	1159.1	965.1
107.5°	1931.1	1934.3	1946.9	1959.6	1946.9	1934.3	1931.1	1651.9	1279.4	1093.2	922.2
110°	1975.0	1988.7	2043.3	2098.0	2043.3	1988.7	1975.0	1662.8	1246.5	1038.3	884.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1947.0	1968.0	2052.0	2135.9	2052.0	1968.0	1947.0	1627.4	1201.4	988.3	850.8
115°	1852.0	1881.1	1997.6	2114.0	1997.6	1881.1	1852.0	1544.1	1133.7	928.5	812.7
117.5°	1720.8	1753.0	1882.1	2011.2	1882.1	1753.0	1720.8	1442.9	1072.5	887.3	788.8
120°	1632.4	1663.8	1789.2	1914.6	1789.2	1663.8	1632.4	1378.5	1040.1	870.9	780.8
122.5°	1544.0	1574.9	1698.7	1822.4	1698.7	1574.9	1544.0	1315.4	1010.5	858.2	776.6
125°	1427.0	1455.5	1569.5	1683.5	1569.5	1455.5	1427.0	1232.8	974.0	844.5	773.1
127.5°	1333.2	1357.2	1453.3	1549.5	1453.3	1357.2	1333.2	1166.4	944.1	832.9	771.1
130°	1273.8	1296.0	1384.9	1473.7	1384.9	1296.0	1273.8	1125.5	927.5	828.6	772.3
132.5°	1223.3	1243.2	1322.8	1402.3	1322.8	1243.2	1223.3	1090.5	913.3	824.7	773.1
135°	1152.0	1169.1	1237.7	1306.2	1237.7	1169.1	1152.0	1040.7	892.4	818.1	772.4
137.5°	1099.3	1113.3	1169.4	1225.5	1169.4	1113.3	1099.3	1005.2	879.7	817.0	777.2
140°	1057.0	1070.1	1122.5	1175.0	1122.5	1070.1	1057.0	975.7	867.3	813.1	777.9
142.5°	1027.3	1038.6	1083.8	1128.9	1083.8	1038.6	1027.3	955.9	860.7	813.1	780.7
145°	982.8	991.4	1025.6	1059.7	1025.6	991.4	982.8	924.5	846.6	807.7	780.7
147.5°	945.5	952.6	980.9	1009.2	980.9	952.6	945.5	899.6	838.4	807.7	786.1
150°	924.1	929.8	952.7	975.7	952.7	929.8	924.1	885.2	833.6	807.7	788.9
152.5°	907.1	911.4	928.8	946.1	928.8	911.4	907.1	874.0	829.8	807.7	790.8
155°	886.8	889.6	901.1	912.6	901.1	889.6	886.8	860.4	825.3	807.7	794.8
157.5°	869.2	871.2	879.2	887.3	879.2	871.2	869.2	848.7	821.4	807.7	798.8
160°	860.4	861.5	866.2	870.9	866.2	861.5	860.4	842.8	819.4	807.7	800.6
162.5°	852.1	853.2	857.6	862.1	857.6	853.2	852.1	837.3	817.6	807.7	802.6
165°	839.5	840.7	845.4	850.0	845.4	840.7	839.5	828.9	814.8	807.7	805.4
167.5°	834.0	834.5	836.5	838.4	836.5	834.5	834.0	827.1	817.8	813.1	811.2
170°	834.0	834.0	834.0	834.0	834.0	834.0	834.0	827.1	817.8	813.1	813.1
172.5°	829.7	829.2	827.5	825.8	827.5	829.2	829.7	824.2	816.8	813.1	813.1
175°	823.6	823.6	823.6	823.6	823.6	823.6	823.6	820.2	815.5	813.1	814.2
177.5°	822.6	822.0	820.1	818.1	820.1	822.0	822.6	819.8	816.2	814.3	815.2
180°	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3674.6	3692.2	3702.8	3716.9	3752.1
5°	3533.9	3600.8	3621.9	3674.6	3738.0
7.5°	3224.2	3428.3	3484.6	3611.3	3709.8
10°	2924.9	3129.0	3227.6	3526.8	3674.6
12.5°	2773.6	2893.3	2960.1	3379.0	3625.3
15°	2678.6	2763.0	2812.3	3181.9	3569.0
17.5°	2604.6	2664.4	2699.7	2988.3	3491.6
20°	2558.9	2587.0	2618.7	2847.5	3403.6
22.5°	2527.2	2509.6	2534.3	2749.0	3283.9
25°	2506.1	2439.2	2467.4	2671.5	3143.2
27.5°	2523.7	2375.8	2386.4	2601.1	2995.3
30°	2527.2	2298.4	2302.0	2527.2	2829.9
32.5°	2502.6	2217.4	2221.0	2435.7	2643.3
35°	2442.7	2122.4	2118.9	2330.1	2390.0
37.5°	2361.7	2020.4	2020.4	2214.0	2111.8
40°	2263.2	1918.3	1928.8	2062.6	1865.5
42.5°	2143.5	1809.1	1823.2	1862.0	1682.5
45°	2013.3	1703.5	1714.1	1573.4	1541.7
47.5°	1869.0	1594.5	1598.0	1305.8	1495.9
50°	1696.5	1481.8	1467.8	1119.3	1492.4
52.5°	1545.2	1358.6	1316.4	1013.7	1355.1
55°	1397.4	1228.4	1136.9	932.8	1256.5
57.5°	1267.1	1059.5	971.5	837.7	1235.5
60°	1147.5	894.0	827.2	735.6	1133.4
62.5°	1048.9	770.9	756.8	665.2	1027.8
65°	943.3	686.3	682.9	605.4	872.9
67.5°	841.2	630.0	626.5	549.1	665.2
70°	732.2	570.2	563.2	489.3	492.8
72.5°	619.5	503.3	496.3	440.0	408.3
75°	506.9	425.9	422.3	383.6	330.9
77.5°	397.7	337.9	344.9	309.7	242.9
80°	285.1	246.4	253.4	221.7	183.0
82.5°	190.0	161.9	169.0	140.7	123.2
85°	105.6	91.6	95.0	73.9	56.3
87.5°	49.3	42.3	42.3	28.1	17.6
90°	24.2	15.4	14.3	9.9	5.5
92.5°	148.9	105.9	96.6	59.2	21.9
95°	366.6	206.5	189.4	121.0	52.7
97.5°	493.8	226.8	211.7	151.4	91.1
100°	540.1	243.8	230.1	175.5	120.8
102.5°	561.3	260.8	248.0	197.0	146.1
105°	577.0	286.0	275.2	232.0	188.9
107.5°	580.0	323.4	313.4	273.1	232.8
110°	575.6	344.3	335.2	298.8	262.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	575.8	369.5	360.8	326.2	291.5
115°	581.1	407.4	399.4	367.5	335.5
117.5°	591.9	444.2	436.9	407.9	378.8
120°	600.6	465.6	458.7	431.5	404.1
122.5°	613.3	490.9	484.0	456.4	428.8
125°	630.4	523.3	517.0	491.9	466.7
127.5°	647.4	554.6	548.3	522.9	497.5
130°	659.8	575.4	568.6	541.3	514.0
132.5°	669.9	592.5	585.6	558.3	530.9
135°	680.8	612.2	606.0	581.1	556.2
137.5°	697.3	637.5	631.4	606.7	582.0
140°	707.4	654.5	648.8	626.1	603.4
142.5°	715.8	667.2	661.9	640.9	619.9
145°	726.8	686.3	681.7	663.4	645.1
147.5°	742.9	710.5	706.0	688.2	670.4
150°	751.3	723.1	719.1	702.9	686.9
152.5°	756.8	731.4	728.3	716.1	703.9
155°	768.9	749.5	747.3	738.2	729.1
157.5°	781.0	767.6	765.4	756.7	747.9
160°	786.5	775.8	774.2	767.3	760.5
162.5°	792.4	784.6	783.4	778.2	773.1
165°	800.7	797.2	796.1	791.5	786.9
167.5°	807.3	804.4	803.8	801.6	799.5
170°	812.8	812.6	812.1	809.9	807.7
172.5°	813.1	813.1	813.1	812.5	812.1
175°	816.4	818.1	818.1	818.1	818.1
177.5°	816.9	818.1	818.1	818.1	818.1
180°	818.1	818.1	818.1	818.1	818.1



TEST NUMBER: P934473  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.54	15.55	15.36	16.40	17.44	17.39	18.40	18.22	19.25	20.29
	3H	15.03	15.94	15.87	16.79	17.87	18.76	19.66	19.59	20.52	21.59
	4H	15.23	16.08	16.08	16.94	18.03	19.21	20.07	20.06	20.93	22.01
	6H	15.36	16.14	16.22	17.01	18.11	19.51	20.30	20.37	21.17	22.27
	8H	15.36	16.11	16.23	17.00	18.10	19.59	20.34	20.46	21.23	22.33
	12H	15.34	16.05	16.21	16.93	18.06	19.64	20.35	20.52	21.23	22.36
4H	2H	15.60	16.45	16.45	17.31	18.40	17.82	18.67	18.68	19.54	20.62
	3H	16.64	17.35	17.51	18.25	19.35	19.35	20.06	20.21	20.95	22.05
	4H	16.92	17.57	17.80	18.46	19.59	19.88	20.53	20.76	21.42	22.55
	6H	17.05	17.61	17.95	18.53	19.66	20.26	20.82	21.16	21.74	22.87
	8H	17.06	17.59	17.96	18.50	19.64	20.38	20.90	21.28	21.81	22.95
	12H	17.04	17.51	17.96	18.44	19.59	20.44	20.92	21.36	21.84	22.99
8H	4H	17.39	17.91	18.29	18.82	19.97	20.02	20.54	20.92	21.45	22.60
	6H	17.66	18.09	18.58	19.04	20.19	20.47	20.90	21.39	21.85	23.00
	8H	17.70	18.09	18.64	19.03	20.19	20.63	21.01	21.56	21.95	23.11
	12H	17.69	18.03	18.63	18.97	20.18	20.73	21.07	21.67	22.01	23.22
12H	4H	17.40	17.88	18.32	18.80	19.95	19.99	20.46	20.91	21.39	22.54
	6H	17.72	18.11	18.66	19.05	20.21	20.47	20.85	21.40	21.79	22.95
	8H	17.79	18.13	18.73	19.07	20.28	20.64	20.98	21.58	21.91	23.12