

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: P933875

Luminaire Tested: SQ4-FA-025U-050D-940-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

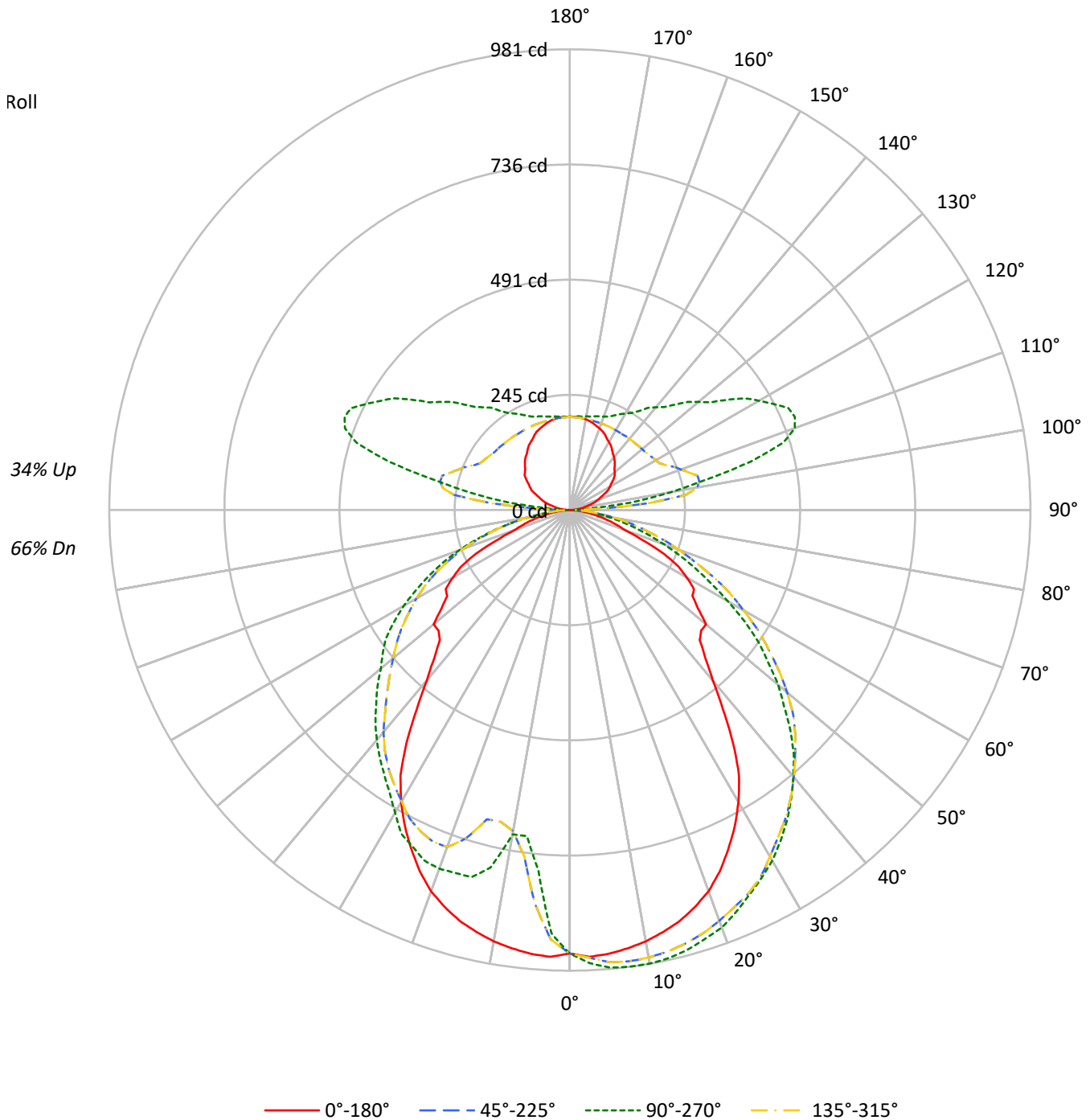
Test Method: LM-79-2019  
Report Number: P933875  
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3737.6 lumens  
Efficiency: N/A  
Efficacy: 113.3 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): 33  
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	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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

	0°	90°	180°	270°
0°	5841	5841	5841	5841
5°	5883	5896	5883	4636
10°	5841	5808	5841	4153
15°	5775	5683	5775	4745
20°	5652	5533	5652	4755
25°	5403	5316	5403	4654
30°	5081	5136	5081	4433
35°	4528	4907	4528	4189
40°	3771	4639	3771	4006
45°	3367	4323	3367	3795
50°	3574	3949	3574	3583
55°	3359	3544	3359	3460
60°	3458	3010	3458	3169
65°	3132	2488	3132	2781
70°	2162	1983	2162	2331
75°	1890	1465	1890	1755
80°	1510	969	1510	1056
85°	853	513	853	437

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5164 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	2.3
10°-20°	242.0	6.5
20°-30°	374.1	10.0
30°-40°	446.6	11.9
40°-50°	449.2	12.0
50°-60°	390.9	10.5
60°-70°	277.1	7.4
70°-80°	146.6	3.9
80°-90°	37.3	1.0
90°-100°	96.9	2.6
100°-110°	254.7	6.8
110°-120°	264.1	7.1
120°-130°	211.9	5.7
130°-140°	166.3	4.4
140°-150°	127.6	3.4
150°-160°	91.9	2.5
160°-170°	56.2	1.5
170°-180°	19.0	0.5
0°-30°	701.3	18.8
0°-40°	1147.9	30.7
0°-60°	1988.0	53.2
0°-90°	2449.0	65.5
90°-120°	615.8	16.5
90°-150°	1121.5	30.0
90°-180°	1289.0	34.5
0°-180°	3737.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	944	944	944	944	944	
5°	949	978	949	769	949	90
15°	906	969	906	809	906	255
25°	798	904	798	792	798	366
35°	607	807	607	689	607	375
45°	391	665	391	583	391	313
55°	319	490	319	479	319	293
65°	222	296	222	330	222	212
75°	84	140	84	168	84	88
85°	14	36	14	30	14	19
90°	1	5	1	5	1	2
95°	13	59	13	59	13	14
105°	46	399	46	399	46	49
115°	82	514	82	514	82	81
125°	113	409	113	409	113	101
135°	135	317	135	317	135	105
145°	157	258	157	258	157	98
155°	177	222	177	222	177	81
165°	191	206	191	206	191	54
175°	199	200	199	200	199	19
180°	199	199	199	199	199	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	952.3	952.3	957.6	959.4	959.4	956.7	954.1	956.7	964.8	967.5	966.6
5°	948.7	955.8	965.7	967.5	969.3	968.4	966.6	968.4	977.2	979.1	980.0
7.5°	941.5	955.0	967.5	970.1	972.8	970.1	969.3	971.0	980.0	981.8	981.8
10°	932.6	951.4	965.7	967.5	970.1	967.5	967.5	971.0	980.0	981.8	982.7
12.5°	920.1	946.0	959.4	961.2	964.8	963.9	962.9	966.6	975.5	977.2	977.2
15°	905.8	936.2	948.7	950.5	956.7	955.0	955.0	958.5	968.4	971.0	970.1
17.5°	886.1	923.7	938.0	940.7	945.1	944.2	945.1	948.7	957.6	959.4	960.3
20°	863.8	906.7	923.7	926.4	930.8	930.8	930.8	935.3	944.2	947.8	947.8
22.5°	833.5	888.8	906.7	908.5	913.8	913.8	915.6	921.9	929.9	930.8	930.8
25°	797.7	869.2	884.4	889.8	895.1	897.8	900.4	904.1	906.7	905.8	906.7
27.5°	760.2	844.1	863.8	867.4	874.6	877.3	880.8	881.7	882.6	885.2	883.5
30°	718.2	809.3	838.8	842.4	854.0	855.8	852.2	854.0	858.4	860.3	862.1
32.5°	670.9	757.6	812.9	821.0	831.7	826.3	825.4	828.1	835.3	835.3	837.0
35°	606.6	717.3	788.8	795.9	804.0	797.7	801.3	802.2	806.7	809.3	808.4
37.5°	536.0	682.5	763.8	769.1	775.4	767.3	772.7	775.4	779.0	777.2	777.2
40°	473.5	628.0	734.3	737.8	743.3	737.0	742.4	744.1	745.9	744.1	743.3
42.5°	427.0	568.1	703.0	707.5	703.9	708.4	710.2	713.8	711.1	707.5	707.5
45°	391.3	552.1	669.1	674.4	669.1	676.2	678.9	678.9	670.9	669.1	668.2
47.5°	379.6	519.9	635.2	635.2	632.4	641.4	645.8	639.6	631.5	628.9	628.9
50°	378.7	484.1	588.7	585.1	597.6	608.4	603.8	597.6	591.4	581.6	581.6
52.5°	343.9	440.4	528.8	542.2	561.9	568.1	561.0	554.7	544.0	539.5	536.0
55°	318.9	394.8	474.4	501.2	521.7	529.7	516.4	510.1	494.0	491.3	489.6
57.5°	313.6	328.7	424.3	458.3	483.2	482.4	474.4	462.7	449.3	446.7	445.8
60°	287.6	237.6	370.7	411.0	436.8	434.1	427.0	416.3	403.8	402.0	400.2
62.5°	260.8	172.4	310.0	355.6	392.1	391.3	385.0	369.0	360.0	355.6	352.0
65°	221.6	144.7	220.7	295.7	348.4	350.1	336.8	325.2	315.3	310.0	309.1
67.5°	168.8	117.9	149.2	246.6	306.4	304.6	287.6	282.3	269.8	267.1	261.8
70°	125.0	78.6	103.6	200.1	265.3	260.8	247.5	241.2	229.5	223.3	219.8
72.5°	103.6	63.4	75.9	155.4	223.3	218.0	206.4	199.2	189.4	184.0	180.4
75°	84.0	67.0	58.1	115.3	181.3	177.8	167.0	159.9	151.8	144.7	145.6
77.5°	61.6	62.5	46.4	84.9	143.9	138.4	132.2	123.3	119.7	112.6	112.6
80°	46.4	49.1	34.8	58.1	103.6	103.6	98.3	92.0	85.8	82.2	82.2
82.5°	31.3	31.3	25.9	36.6	70.6	67.9	64.3	62.5	59.0	57.2	57.2
85°	14.3	17.8	16.1	22.3	38.5	40.2	40.2	38.5	37.6	35.7	36.6
87.5°	4.4	8.1	9.9	12.5	19.6	20.5	21.4	21.4	21.4	22.3	22.3
90°	1.3	2.4	3.5	3.7	5.9	8.7	10.1	9.0	6.7	5.1	5.1
92.5°	5.3	14.4	23.4	25.8	36.2	50.2	57.1	50.0	35.9	25.3	24.3
95°	12.8	29.4	46.0	50.2	89.1	140.9	166.9	148.9	113.0	86.0	83.0
97.5°	22.1	36.8	51.4	55.1	120.0	206.5	249.7	238.3	215.7	198.6	192.9
100°	29.4	42.6	55.9	59.2	131.2	227.2	275.2	276.0	277.7	278.9	272.0
102.5°	35.5	48.0	60.3	63.4	136.4	233.7	282.4	296.9	325.8	347.6	341.6
105°	45.9	56.4	66.9	69.5	140.2	234.4	281.6	314.0	378.9	427.6	424.4
107.5°	56.6	66.3	76.1	78.6	140.9	224.0	265.6	310.9	401.4	469.2	470.0
110°	63.8	72.6	81.4	83.6	139.9	214.8	252.3	302.9	404.0	479.9	483.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	70.9	79.3	87.6	89.8	139.9	206.7	240.1	291.9	395.4	473.0	478.1
115°	81.5	89.3	97.1	99.0	141.2	197.4	225.6	275.5	375.2	449.9	457.1
117.5°	92.1	99.1	106.1	107.9	143.8	191.6	215.6	260.6	350.6	418.1	425.9
120°	98.2	104.9	111.4	113.1	146.0	189.8	211.6	252.7	335.0	396.7	404.3
122.5°	104.2	110.9	117.6	119.3	149.0	188.7	208.5	245.5	319.6	375.2	382.7
125°	113.4	119.5	125.7	127.2	153.2	187.9	205.2	236.7	299.6	346.8	353.7
127.5°	120.9	127.0	133.2	134.7	157.3	187.4	202.4	229.4	283.4	323.9	329.8
130°	124.9	131.5	138.1	139.8	160.3	187.6	201.3	225.4	273.4	309.5	314.9
132.5°	129.0	135.7	142.3	143.9	162.8	187.9	200.4	221.9	265.0	297.2	302.0
135°	135.2	141.2	147.2	148.7	165.4	187.7	198.8	216.8	252.9	279.9	284.1
137.5°	141.5	147.4	153.4	154.9	169.4	188.9	198.6	213.8	244.3	267.1	270.5
140°	146.6	152.1	157.6	159.0	171.9	189.1	197.6	210.7	237.1	256.8	260.0
142.5°	150.6	155.7	160.8	162.1	173.9	189.7	197.6	209.1	232.3	249.6	252.4
145°	156.7	161.2	165.6	166.8	176.6	189.7	196.2	205.7	224.6	238.8	240.8
147.5°	162.9	167.2	171.6	172.6	180.5	191.0	196.2	203.7	218.5	229.7	231.4
150°	166.9	170.8	174.8	175.7	182.6	191.7	196.2	202.6	215.1	224.5	225.9
152.5°	171.0	174.0	177.0	177.7	183.9	192.2	196.2	201.6	212.3	220.4	221.5
155°	177.2	179.4	181.6	182.1	186.8	193.1	196.2	200.5	209.0	215.4	216.1
157.5°	181.7	183.8	185.9	186.5	189.8	194.1	196.2	199.5	206.2	211.2	211.7
160°	184.8	186.5	188.1	188.5	191.1	194.6	196.2	199.1	204.8	209.0	209.3
162.5°	187.8	189.1	190.3	190.7	192.5	195.0	196.2	198.6	203.4	207.1	207.3
165°	191.2	192.3	193.4	193.7	194.6	195.7	196.2	197.9	201.4	204.0	204.2
167.5°	194.2	194.7	195.3	195.4	196.2	197.1	197.6	198.7	201.0	202.6	202.7
170°	196.2	196.8	197.3	197.4	197.5	197.6	197.6	198.7	201.0	202.6	202.6
172.5°	197.3	197.4	197.6	197.6	197.6	197.6	197.6	198.5	200.2	201.6	201.5
175°	198.8	198.8	198.8	198.8	198.4	197.8	197.6	198.1	199.3	200.2	200.2
177.5°	198.8	198.8	198.8	198.8	198.5	198.0	197.8	198.3	199.2	199.9	199.8
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	968.4	965.7	968.4	966.6	967.5	964.8	956.7	954.1	956.7	959.4	959.4
5°	980.0	978.1	980.0	980.0	979.1	977.2	968.4	966.6	968.4	969.3	967.5
7.5°	983.5	980.9	983.5	981.8	981.8	980.0	971.0	969.3	970.1	972.8	970.1
10°	983.5	980.9	983.5	982.7	981.8	980.0	971.0	967.5	967.5	970.1	967.5
12.5°	979.1	977.2	979.1	977.2	977.2	975.5	966.6	962.9	963.9	964.8	961.2
15°	971.9	969.3	971.9	970.1	971.0	968.4	958.5	955.0	955.0	956.7	950.5
17.5°	961.2	957.6	961.2	960.3	959.4	957.6	948.7	945.1	944.2	945.1	940.7
20°	948.7	946.0	948.7	947.8	947.8	944.2	935.3	930.8	930.8	930.8	926.4
22.5°	929.0	926.4	929.0	930.8	930.8	929.9	921.9	915.6	913.8	913.8	908.5
25°	906.7	904.1	906.7	906.7	905.8	906.7	904.1	900.4	897.8	895.1	889.8
27.5°	885.2	883.5	885.2	883.5	885.2	882.6	881.7	880.8	877.3	874.6	867.4
30°	863.8	862.1	863.8	862.1	860.3	858.4	854.0	852.2	855.8	854.0	842.4
32.5°	837.0	835.3	837.0	837.0	835.3	835.3	828.1	825.4	826.3	831.7	821.0
35°	809.3	806.7	809.3	808.4	809.3	806.7	802.2	801.3	797.7	804.0	795.9
37.5°	777.2	774.5	777.2	777.2	777.2	779.0	775.4	772.7	767.3	775.4	769.1
40°	744.1	740.6	744.1	743.3	744.1	745.9	744.1	742.4	737.0	743.3	737.8
42.5°	706.6	705.7	706.6	707.5	707.5	711.1	713.8	710.2	708.4	703.9	707.5
45°	666.4	664.6	666.4	668.2	669.1	670.9	678.9	678.9	676.2	669.1	674.4
47.5°	623.6	619.0	623.6	628.9	628.9	631.5	639.6	645.8	641.4	632.4	635.2
50°	578.0	578.9	578.0	581.6	581.6	591.4	597.6	603.8	608.4	597.6	585.1
52.5°	533.3	532.4	533.3	536.0	539.5	544.0	554.7	561.0	568.1	561.9	542.2
55°	488.7	490.4	488.7	489.6	491.3	494.0	510.1	516.4	529.7	521.7	501.2
57.5°	444.0	441.3	444.0	445.8	446.7	449.3	462.7	474.4	482.4	483.2	458.3
60°	392.1	388.6	392.1	400.2	402.0	403.8	416.3	427.0	434.1	436.8	411.0
62.5°	346.6	340.4	346.6	352.0	355.6	360.0	369.0	385.0	391.3	392.1	355.6
65°	298.4	295.7	298.4	309.1	310.0	315.3	325.2	336.8	350.1	348.4	295.7
67.5°	254.6	254.6	254.6	261.8	267.1	269.8	282.3	287.6	304.6	306.4	246.6
70°	214.4	213.5	214.4	219.8	223.3	229.5	241.2	247.5	260.8	265.3	200.1
72.5°	176.0	175.1	176.0	180.4	184.0	189.4	199.2	206.4	218.0	223.3	155.4
75°	142.1	140.2	142.1	145.6	144.7	151.8	159.9	167.0	177.8	181.3	115.3
77.5°	109.0	109.0	109.0	112.6	112.6	119.7	123.3	132.2	138.4	143.9	84.9
80°	81.3	80.4	81.3	82.2	82.2	85.8	92.0	98.3	103.6	103.6	58.1
82.5°	57.2	55.4	57.2	57.2	57.2	59.0	62.5	64.3	67.9	70.6	36.6
85°	35.7	35.7	35.7	36.6	35.7	37.6	38.5	40.2	40.2	38.5	22.3
87.5°	23.3	22.3	23.3	22.3	22.3	21.4	21.4	21.4	20.5	19.6	12.5
90°	5.1	5.1	5.1	5.1	5.1	6.7	9.0	10.1	8.7	5.9	3.7
92.5°	20.2	16.3	20.2	24.3	25.3	35.9	50.0	57.1	50.2	36.2	25.8
95°	70.8	58.6	70.8	83.0	86.0	113.0	148.9	166.9	140.9	89.1	50.2
97.5°	169.6	146.3	169.6	192.9	198.6	215.7	238.3	249.7	206.5	120.0	55.1
100°	244.4	216.7	244.4	272.0	278.9	277.7	276.0	275.2	227.2	131.2	59.2
102.5°	317.9	294.2	317.9	341.6	347.6	325.8	296.9	282.4	233.7	136.4	63.4
105°	411.7	398.9	411.7	424.4	427.6	378.9	314.0	281.6	234.4	140.2	69.5
107.5°	473.0	476.1	473.0	470.0	469.2	401.4	310.9	265.6	224.0	140.9	78.6
110°	496.5	509.8	496.5	483.2	479.9	404.0	302.9	252.3	214.8	139.9	83.6





TEST NUMBER: P933875

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	498.5	518.9	498.5	478.1	473.0	395.4	291.9	240.1	206.7	139.9	89.8
115°	485.3	513.6	485.3	457.1	449.9	375.2	275.5	225.6	197.4	141.2	99.0
117.5°	457.3	488.7	457.3	425.9	418.1	350.6	260.6	215.6	191.6	143.8	107.9
120°	434.8	465.2	434.8	404.3	396.7	335.0	252.7	211.6	189.8	146.0	113.1
122.5°	412.7	442.8	412.7	382.7	375.2	319.6	245.5	208.5	188.7	149.0	119.3
125°	381.3	409.0	381.3	353.7	346.8	299.6	236.7	205.2	187.9	153.2	127.2
127.5°	353.2	376.5	353.2	329.8	323.9	283.4	229.4	202.4	187.4	157.3	134.7
130°	336.5	358.0	336.5	314.9	309.5	273.4	225.4	201.3	187.6	160.3	139.8
132.5°	321.4	340.7	321.4	302.0	297.2	265.0	221.9	200.4	187.9	162.8	143.9
135°	300.7	317.4	300.7	284.1	279.9	252.9	216.8	198.8	187.7	165.4	148.7
137.5°	284.2	297.7	284.2	270.5	267.1	244.3	213.8	198.6	188.9	169.4	154.9
140°	272.7	285.5	272.7	260.0	256.8	237.1	210.7	197.6	189.1	171.9	159.0
142.5°	263.3	274.3	263.3	252.4	249.6	232.3	209.1	197.6	189.7	173.9	162.1
145°	249.2	257.5	249.2	240.8	238.8	224.6	205.7	196.2	189.7	176.6	166.8
147.5°	238.3	245.2	238.3	231.4	229.7	218.5	203.7	196.2	191.0	180.5	172.6
150°	231.5	237.1	231.5	225.9	224.5	215.1	202.6	196.2	191.7	182.6	175.7
152.5°	225.6	229.9	225.6	221.5	220.4	212.3	201.6	196.2	192.2	183.9	177.7
155°	218.9	221.7	218.9	216.1	215.4	209.0	200.5	196.2	193.1	186.8	182.1
157.5°	213.7	215.6	213.7	211.7	211.2	206.2	199.5	196.2	194.1	189.8	186.5
160°	210.5	211.6	210.5	209.3	209.0	204.8	199.1	196.2	194.6	191.1	188.5
162.5°	208.4	209.5	208.4	207.3	207.1	203.4	198.6	196.2	195.0	192.5	190.7
165°	205.4	206.5	205.4	204.2	204.0	201.4	197.9	196.2	195.7	194.6	193.7
167.5°	203.3	203.7	203.3	202.7	202.6	201.0	198.7	197.6	197.1	196.2	195.4
170°	202.6	202.6	202.6	202.6	202.6	201.0	198.7	197.6	197.6	197.5	197.4
172.5°	201.0	200.7	201.0	201.5	201.6	200.2	198.5	197.6	197.6	197.6	197.6
175°	200.2	200.2	200.2	200.2	200.2	199.3	198.1	197.6	197.8	198.4	198.8
177.5°	199.3	198.8	199.3	199.8	199.9	199.2	198.3	197.8	198.0	198.5	198.8
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



TEST NUMBER: P933875

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	957.6	952.3	952.3	943.3	939.8	937.1	932.6	919.3	915.6	912.1	917.4
5°	965.7	955.8	948.7	932.6	919.3	913.8	896.9	864.7	843.2	827.2	818.3
7.5°	967.5	955.0	941.5	916.5	884.4	870.1	818.3	759.3	743.3	729.0	720.0
10°	965.7	951.4	932.6	895.1	819.2	794.1	742.4	703.9	694.1	691.4	694.1
12.5°	959.4	946.0	920.1	857.5	751.2	734.3	703.9	681.6	679.8	684.3	708.4
15°	948.7	936.2	905.8	807.5	713.8	701.3	679.8	671.8	681.6	712.9	785.3
17.5°	938.0	923.7	886.1	758.4	685.2	676.2	661.0	677.1	732.5	774.5	798.6
20°	923.7	906.7	863.8	722.7	664.6	656.6	649.4	721.8	763.8	779.0	792.4
22.5°	906.7	888.8	833.5	697.7	643.2	637.0	641.4	746.8	763.8	774.5	786.1
25°	884.4	869.2	797.7	678.0	626.2	619.0	636.1	744.1	753.9	756.7	779.8
27.5°	863.8	844.1	760.2	660.1	605.7	603.0	640.5	732.5	739.7	742.4	767.3
30°	838.8	809.3	718.2	641.4	584.2	583.3	641.4	718.2	716.4	723.5	748.6
32.5°	812.9	757.6	670.9	618.1	563.7	562.8	635.2	696.8	695.0	704.8	723.5
35°	788.8	717.3	606.6	591.4	537.8	538.7	619.9	671.8	672.7	681.6	693.2
37.5°	763.8	682.5	536.0	561.9	512.7	512.7	599.4	648.5	646.7	649.4	665.6
40°	734.3	628.0	473.5	523.5	489.6	486.9	574.4	623.6	617.2	616.4	638.7
42.5°	703.0	568.1	427.0	472.6	462.7	459.2	544.0	593.2	581.6	584.2	612.8
45°	669.1	552.1	391.3	399.3	435.0	432.4	511.0	558.3	550.3	557.4	586.9
47.5°	635.2	519.9	379.6	331.4	405.5	404.7	474.4	524.4	519.9	527.0	558.3
50°	588.7	484.1	378.7	284.1	372.5	376.1	430.6	491.3	491.3	497.5	530.7
52.5°	528.8	440.4	343.9	257.3	334.1	344.8	392.1	462.7	464.5	470.8	500.2
55°	474.4	394.8	318.9	236.7	288.5	311.8	354.7	433.3	436.8	443.1	469.8
57.5°	424.3	328.7	313.6	212.6	246.6	268.9	321.6	404.7	406.4	411.9	437.7
60°	370.7	237.6	287.6	186.7	209.9	226.9	291.2	370.7	377.0	380.5	402.9
62.5°	310.0	172.4	260.8	168.8	192.1	195.6	266.2	338.6	346.6	349.3	362.7
65°	220.7	144.7	221.6	153.6	173.3	174.2	239.4	305.5	312.7	317.1	327.0
67.5°	149.2	117.9	168.8	139.3	159.0	159.9	213.5	267.1	277.0	280.5	286.7
70°	103.6	78.6	125.0	124.1	143.0	144.7	185.8	232.3	241.2	243.8	247.5
72.5°	75.9	63.4	103.6	111.6	125.9	127.8	157.3	193.0	201.9	204.6	206.4
75°	58.1	67.0	84.0	97.4	107.2	108.1	128.7	157.3	163.5	165.3	166.1
77.5°	46.4	62.5	61.6	78.6	87.6	85.8	101.0	121.5	126.8	126.8	126.8
80°	34.8	49.1	46.4	56.3	64.3	62.5	72.4	86.7	88.4	90.2	89.3
82.5°	25.9	31.3	31.3	35.7	42.9	41.1	48.2	56.3	56.3	56.3	58.1
85°	16.1	17.8	14.3	18.7	24.2	23.3	26.8	30.4	31.3	31.3	29.5
87.5°	9.9	8.1	4.4	7.1	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	3.5	2.4	1.3	2.4	3.5	3.7	5.9	8.7	10.1	9.0	6.7
92.5°	23.4	14.4	5.3	14.4	23.4	25.8	36.2	50.2	57.1	50.0	35.9
95°	46.0	29.4	12.8	29.4	46.0	50.2	89.1	140.9	166.9	148.9	113.0
97.5°	51.4	36.8	22.1	36.8	51.4	55.1	120.0	206.5	249.7	238.3	215.7
100°	55.9	42.6	29.4	42.6	55.9	59.2	131.2	227.2	275.2	276.0	277.7
102.5°	60.3	48.0	35.5	48.0	60.3	63.4	136.4	233.7	282.4	296.9	325.8
105°	66.9	56.4	45.9	56.4	66.9	69.5	140.2	234.4	281.6	314.0	378.9
107.5°	76.1	66.3	56.6	66.3	76.1	78.6	140.9	224.0	265.6	310.9	401.4
110°	81.4	72.6	63.8	72.6	81.4	83.6	139.9	214.8	252.3	302.9	404.0



TEST NUMBER: P933875

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	87.6	79.3	70.9	79.3	87.6	89.8	139.9	206.7	240.1	291.9	395.4
115°	97.1	89.3	81.5	89.3	97.1	99.0	141.2	197.4	225.6	275.5	375.2
117.5°	106.1	99.1	92.1	99.1	106.1	107.9	143.8	191.6	215.6	260.6	350.6
120°	111.4	104.9	98.2	104.9	111.4	113.1	146.0	189.8	211.6	252.7	335.0
122.5°	117.6	110.9	104.2	110.9	117.6	119.3	149.0	188.7	208.5	245.5	319.6
125°	125.7	119.5	113.4	119.5	125.7	127.2	153.2	187.9	205.2	236.7	299.6
127.5°	133.2	127.0	120.9	127.0	133.2	134.7	157.3	187.4	202.4	229.4	283.4
130°	138.1	131.5	124.9	131.5	138.1	139.8	160.3	187.6	201.3	225.4	273.4
132.5°	142.3	135.7	129.0	135.7	142.3	143.9	162.8	187.9	200.4	221.9	265.0
135°	147.2	141.2	135.2	141.2	147.2	148.7	165.4	187.7	198.8	216.8	252.9
137.5°	153.4	147.4	141.5	147.4	153.4	154.9	169.4	188.9	198.6	213.8	244.3
140°	157.6	152.1	146.6	152.1	157.6	159.0	171.9	189.1	197.6	210.7	237.1
142.5°	160.8	155.7	150.6	155.7	160.8	162.1	173.9	189.7	197.6	209.1	232.3
145°	165.6	161.2	156.7	161.2	165.6	166.8	176.6	189.7	196.2	205.7	224.6
147.5°	171.6	167.2	162.9	167.2	171.6	172.6	180.5	191.0	196.2	203.7	218.5
150°	174.8	170.8	166.9	170.8	174.8	175.7	182.6	191.7	196.2	202.6	215.1
152.5°	177.0	174.0	171.0	174.0	177.0	177.7	183.9	192.2	196.2	201.6	212.3
155°	181.6	179.4	177.2	179.4	181.6	182.1	186.8	193.1	196.2	200.5	209.0
157.5°	185.9	183.8	181.7	183.8	185.9	186.5	189.8	194.1	196.2	199.5	206.2
160°	188.1	186.5	184.8	186.5	188.1	188.5	191.1	194.6	196.2	199.1	204.8
162.5°	190.3	189.1	187.8	189.1	190.3	190.7	192.5	195.0	196.2	198.6	203.4
165°	193.4	192.3	191.2	192.3	193.4	193.7	194.6	195.7	196.2	197.9	201.4
167.5°	195.3	194.7	194.2	194.7	195.3	195.4	196.2	197.1	197.6	198.7	201.0
170°	197.3	196.8	196.2	196.8	197.3	197.4	197.5	197.6	197.6	198.7	201.0
172.5°	197.6	197.4	197.3	197.4	197.6	197.6	197.6	197.6	197.6	198.5	200.2
175°	198.8	198.8	198.8	198.8	198.8	198.8	198.4	197.8	197.6	198.1	199.3
177.5°	198.8	198.8	198.8	198.8	198.8	198.8	198.5	198.0	197.8	198.3	199.2
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



TEST NUMBER: P933875

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	911.2	908.5	912.1	902.2	912.1	908.5	911.2	917.4	912.1	915.6	919.3
5°	799.6	795.0	780.7	769.1	780.7	795.0	799.6	818.3	827.2	843.2	864.7
7.5°	714.7	711.1	707.5	700.4	707.5	711.1	714.7	720.0	729.0	743.3	759.3
10°	695.9	696.8	702.1	701.3	702.1	696.8	695.9	694.1	691.4	694.1	703.9
12.5°	744.1	752.1	781.6	779.8	781.6	752.1	744.1	708.4	684.3	679.8	681.6
15°	799.6	802.2	808.4	809.3	808.4	802.2	799.6	785.3	712.9	681.6	671.8
17.5°	804.9	805.8	810.2	810.2	810.2	805.8	804.9	798.6	774.5	732.5	677.1
20°	800.4	802.2	811.1	812.9	811.1	802.2	800.4	792.4	779.0	763.8	721.8
22.5°	798.6	802.2	809.3	808.4	809.3	802.2	798.6	786.1	774.5	763.8	746.8
25°	789.7	789.7	790.6	791.5	790.6	789.7	789.7	779.8	756.7	753.9	744.1
27.5°	771.0	772.7	778.1	777.2	778.1	772.7	771.0	767.3	742.4	739.7	732.5
30°	753.9	752.1	747.7	744.1	747.7	752.1	753.9	748.6	723.5	716.4	718.2
32.5°	725.4	720.9	716.4	713.8	716.4	720.9	725.4	723.5	704.8	695.0	696.8
35°	691.4	692.3	691.4	688.7	691.4	692.3	691.4	693.2	681.6	672.7	671.8
37.5°	667.3	669.1	668.2	664.6	668.2	669.1	667.3	665.6	649.4	646.7	648.5
40°	642.3	643.2	642.3	639.6	642.3	643.2	642.3	638.7	616.4	617.2	623.6
42.5°	618.1	617.2	614.6	612.8	614.6	617.2	618.1	612.8	584.2	581.6	593.2
45°	590.5	591.4	586.0	583.3	586.0	591.4	590.5	586.9	557.4	550.3	558.3
47.5°	562.8	562.8	558.3	555.6	558.3	562.8	562.8	558.3	527.0	519.9	524.4
50°	533.3	532.4	526.1	525.3	526.1	532.4	533.3	530.7	497.5	491.3	491.3
52.5°	499.3	499.3	500.2	502.1	500.2	499.3	499.3	500.2	470.8	464.5	462.7
55°	469.8	470.8	477.0	478.8	477.0	470.8	469.8	469.8	443.1	436.8	433.3
57.5°	439.5	439.5	444.0	444.0	444.0	439.5	439.5	437.7	411.9	406.4	404.7
60°	404.7	406.4	410.0	409.1	410.0	406.4	404.7	402.9	380.5	377.0	370.7
62.5°	368.1	369.9	370.7	369.0	370.7	369.9	368.1	362.7	349.3	346.6	338.6
65°	329.6	331.4	332.3	330.5	332.3	331.4	329.6	327.0	317.1	312.7	305.5
67.5°	290.3	289.4	288.5	292.2	288.5	289.4	290.3	286.7	280.5	277.0	267.1
70°	250.1	250.1	249.3	251.0	249.3	250.1	250.1	247.5	243.8	241.2	232.3
72.5°	207.3	206.4	209.9	207.3	209.9	206.4	207.3	206.4	204.6	201.9	193.0
75°	165.3	167.0	165.3	167.9	165.3	167.0	165.3	166.1	165.3	163.5	157.3
77.5°	125.9	127.8	125.9	125.9	125.9	127.8	125.9	126.8	126.8	126.8	121.5
80°	89.3	88.4	88.4	87.6	88.4	88.4	89.3	89.3	90.2	88.4	86.7
82.5°	57.2	56.3	56.3	58.1	56.3	56.3	57.2	58.1	56.3	56.3	56.3
85°	31.3	32.1	30.4	30.4	30.4	32.1	31.3	29.5	31.3	31.3	30.4
87.5°	11.6	10.7	10.7	10.7	10.7	10.7	11.6	12.5	12.5	12.5	13.4
90°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.7	9.0	10.1	8.7
92.5°	25.3	24.3	20.2	16.3	20.2	24.3	25.3	35.9	50.0	57.1	50.2
95°	86.0	83.0	70.8	58.6	70.8	83.0	86.0	113.0	148.9	166.9	140.9
97.5°	198.6	192.9	169.6	146.3	169.6	192.9	198.6	215.7	238.3	249.7	206.5
100°	278.9	272.0	244.4	216.7	244.4	272.0	278.9	277.7	276.0	275.2	227.2
102.5°	347.6	341.6	317.9	294.2	317.9	341.6	347.6	325.8	296.9	282.4	233.7
105°	427.6	424.4	411.7	398.9	411.7	424.4	427.6	378.9	314.0	281.6	234.4
107.5°	469.2	470.0	473.0	476.1	473.0	470.0	469.2	401.4	310.9	265.6	224.0
110°	479.9	483.2	496.5	509.8	496.5	483.2	479.9	404.0	302.9	252.3	214.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	473.0	478.1	498.5	518.9	498.5	478.1	473.0	395.4	291.9	240.1	206.7
115°	449.9	457.1	485.3	513.6	485.3	457.1	449.9	375.2	275.5	225.6	197.4
117.5°	418.1	425.9	457.3	488.7	457.3	425.9	418.1	350.6	260.6	215.6	191.6
120°	396.7	404.3	434.8	465.2	434.8	404.3	396.7	335.0	252.7	211.6	189.8
122.5°	375.2	382.7	412.7	442.8	412.7	382.7	375.2	319.6	245.5	208.5	188.7
125°	346.8	353.7	381.3	409.0	381.3	353.7	346.8	299.6	236.7	205.2	187.9
127.5°	323.9	329.8	353.2	376.5	353.2	329.8	323.9	283.4	229.4	202.4	187.4
130°	309.5	314.9	336.5	358.0	336.5	314.9	309.5	273.4	225.4	201.3	187.6
132.5°	297.2	302.0	321.4	340.7	321.4	302.0	297.2	265.0	221.9	200.4	187.9
135°	279.9	284.1	300.7	317.4	300.7	284.1	279.9	252.9	216.8	198.8	187.7
137.5°	267.1	270.5	284.2	297.7	284.2	270.5	267.1	244.3	213.8	198.6	188.9
140°	256.8	260.0	272.7	285.5	272.7	260.0	256.8	237.1	210.7	197.6	189.1
142.5°	249.6	252.4	263.3	274.3	263.3	252.4	249.6	232.3	209.1	197.6	189.7
145°	238.8	240.8	249.2	257.5	249.2	240.8	238.8	224.6	205.7	196.2	189.7
147.5°	229.7	231.4	238.3	245.2	238.3	231.4	229.7	218.5	203.7	196.2	191.0
150°	224.5	225.9	231.5	237.1	231.5	225.9	224.5	215.1	202.6	196.2	191.7
152.5°	220.4	221.5	225.6	229.9	225.6	221.5	220.4	212.3	201.6	196.2	192.2
155°	215.4	216.1	218.9	221.7	218.9	216.1	215.4	209.0	200.5	196.2	193.1
157.5°	211.2	211.7	213.7	215.6	213.7	211.7	211.2	206.2	199.5	196.2	194.1
160°	209.0	209.3	210.5	211.6	210.5	209.3	209.0	204.8	199.1	196.2	194.6
162.5°	207.1	207.3	208.4	209.5	208.4	207.3	207.1	203.4	198.6	196.2	195.0
165°	204.0	204.2	205.4	206.5	205.4	204.2	204.0	201.4	197.9	196.2	195.7
167.5°	202.6	202.7	203.3	203.7	203.3	202.7	202.6	201.0	198.7	197.6	197.1
170°	202.6	202.6	202.6	202.6	202.6	202.6	202.6	201.0	198.7	197.6	197.6
172.5°	201.6	201.5	201.0	200.7	201.0	201.5	201.6	200.2	198.5	197.6	197.6
175°	200.2	200.2	200.2	200.2	200.2	200.2	200.2	199.3	198.1	197.6	197.8
177.5°	199.9	199.8	199.3	198.8	199.3	199.8	199.9	199.2	198.3	197.8	198.0
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	944.2	944.2	944.2	944.2	944.2
2.5°	932.6	937.1	939.8	943.3	952.3
5°	896.9	913.8	919.3	932.6	948.7
7.5°	818.3	870.1	884.4	916.5	941.5
10°	742.4	794.1	819.2	895.1	932.6
12.5°	703.9	734.3	751.2	857.5	920.1
15°	679.8	701.3	713.8	807.5	905.8
17.5°	661.0	676.2	685.2	758.4	886.1
20°	649.4	656.6	664.6	722.7	863.8
22.5°	641.4	637.0	643.2	697.7	833.5
25°	636.1	619.0	626.2	678.0	797.7
27.5°	640.5	603.0	605.7	660.1	760.2
30°	641.4	583.3	584.2	641.4	718.2
32.5°	635.2	562.8	563.7	618.1	670.9
35°	619.9	538.7	537.8	591.4	606.6
37.5°	599.4	512.7	512.7	561.9	536.0
40°	574.4	486.9	489.6	523.5	473.5
42.5°	544.0	459.2	462.7	472.6	427.0
45°	511.0	432.4	435.0	399.3	391.3
47.5°	474.4	404.7	405.5	331.4	379.6
50°	430.6	376.1	372.5	284.1	378.7
52.5°	392.1	344.8	334.1	257.3	343.9
55°	354.7	311.8	288.5	236.7	318.9
57.5°	321.6	268.9	246.6	212.6	313.6
60°	291.2	226.9	209.9	186.7	287.6
62.5°	266.2	195.6	192.1	168.8	260.8
65°	239.4	174.2	173.3	153.6	221.6
67.5°	213.5	159.9	159.0	139.3	168.8
70°	185.8	144.7	143.0	124.1	125.0
72.5°	157.3	127.8	125.9	111.6	103.6
75°	128.7	108.1	107.2	97.4	84.0
77.5°	101.0	85.8	87.6	78.6	61.6
80°	72.4	62.5	64.3	56.3	46.4
82.5°	48.2	41.1	42.9	35.7	31.3
85°	26.8	23.3	24.2	18.7	14.3
87.5°	12.5	10.7	10.7	7.1	4.4
90°	5.9	3.7	3.5	2.4	1.3
92.5°	36.2	25.8	23.4	14.4	5.3
95°	89.1	50.2	46.0	29.4	12.8
97.5°	120.0	55.1	51.4	36.8	22.1
100°	131.2	59.2	55.9	42.6	29.4
102.5°	136.4	63.4	60.3	48.0	35.5
105°	140.2	69.5	66.9	56.4	45.9
107.5°	140.9	78.6	76.1	66.3	56.6
110°	139.9	83.6	81.4	72.6	63.8



TEST NUMBER: P933875  
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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	139.9	89.8	87.6	79.3	70.9
115°	141.2	99.0	97.1	89.3	81.5
117.5°	143.8	107.9	106.1	99.1	92.1
120°	146.0	113.1	111.4	104.9	98.2
122.5°	149.0	119.3	117.6	110.9	104.2
125°	153.2	127.2	125.7	119.5	113.4
127.5°	157.3	134.7	133.2	127.0	120.9
130°	160.3	139.8	138.1	131.5	124.9
132.5°	162.8	143.9	142.3	135.7	129.0
135°	165.4	148.7	147.2	141.2	135.2
137.5°	169.4	154.9	153.4	147.4	141.5
140°	171.9	159.0	157.6	152.1	146.6
142.5°	173.9	162.1	160.8	155.7	150.6
145°	176.6	166.8	165.6	161.2	156.7
147.5°	180.5	172.6	171.6	167.2	162.9
150°	182.6	175.7	174.8	170.8	166.9
152.5°	183.9	177.7	177.0	174.0	171.0
155°	186.8	182.1	181.6	179.4	177.2
157.5°	189.8	186.5	185.9	183.8	181.7
160°	191.1	188.5	188.1	186.5	184.8
162.5°	192.5	190.7	190.3	189.1	187.8
165°	194.6	193.7	193.4	192.3	191.2
167.5°	196.2	195.4	195.3	194.7	194.2
170°	197.5	197.4	197.3	196.8	196.2
172.5°	197.6	197.6	197.6	197.4	197.3
175°	198.4	198.8	198.8	198.8	198.8
177.5°	198.5	198.8	198.8	198.8	198.8
180°	198.8	198.8	198.8	198.8	198.8



TEST NUMBER: P933875  
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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	12.26	13.28	13.07	14.11	15.14	15.08	16.10	15.89	16.94	17.97
	3H	12.74	13.66	13.57	14.50	15.56	16.44	17.35	17.26	18.20	19.25
	4H	12.94	13.81	13.78	14.66	15.73	16.89	17.75	17.73	18.60	19.67
	6H	13.07	13.87	13.92	14.73	15.81	17.18	17.98	18.03	18.83	19.92
	8H	13.08	13.84	13.94	14.71	15.80	17.26	18.02	18.12	18.89	19.98
	12H	13.05	13.78	13.92	14.65	15.76	17.30	18.02	18.17	18.89	20.00
4H	2H	13.31	14.17	14.15	15.02	16.09	15.51	16.37	16.36	17.23	18.30
	3H	14.35	15.07	15.21	15.95	17.04	17.03	17.75	17.89	18.63	19.72
	4H	14.63	15.29	15.50	16.17	17.28	17.56	18.22	18.43	19.10	20.21
	6H	14.77	15.33	15.65	16.24	17.35	17.93	18.50	18.82	19.41	20.52
	8H	14.77	15.30	15.66	16.20	17.33	18.04	18.57	18.93	19.47	20.60
	12H	14.75	15.23	15.66	16.15	17.28	18.11	18.58	19.02	19.50	20.64
8H	4H	15.10	15.63	15.99	16.53	17.65	17.70	18.23	18.59	19.13	20.26
	6H	15.36	15.80	16.28	16.74	17.87	18.14	18.58	19.06	19.52	20.65
	8H	15.41	15.80	16.34	16.73	17.88	18.29	18.68	19.22	19.62	20.76
	12H	15.40	15.74	16.33	16.67	17.87	18.40	18.74	19.33	19.67	20.86
12H	4H	15.11	15.59	16.02	16.51	17.64	17.67	18.15	18.58	19.07	20.20
	6H	15.43	15.82	16.35	16.75	17.89	18.14	18.53	19.07	19.46	20.61
	8H	15.50	15.84	16.43	16.77	17.97	18.31	18.65	19.24	19.58	20.77