

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: P935898

Luminaire Tested: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

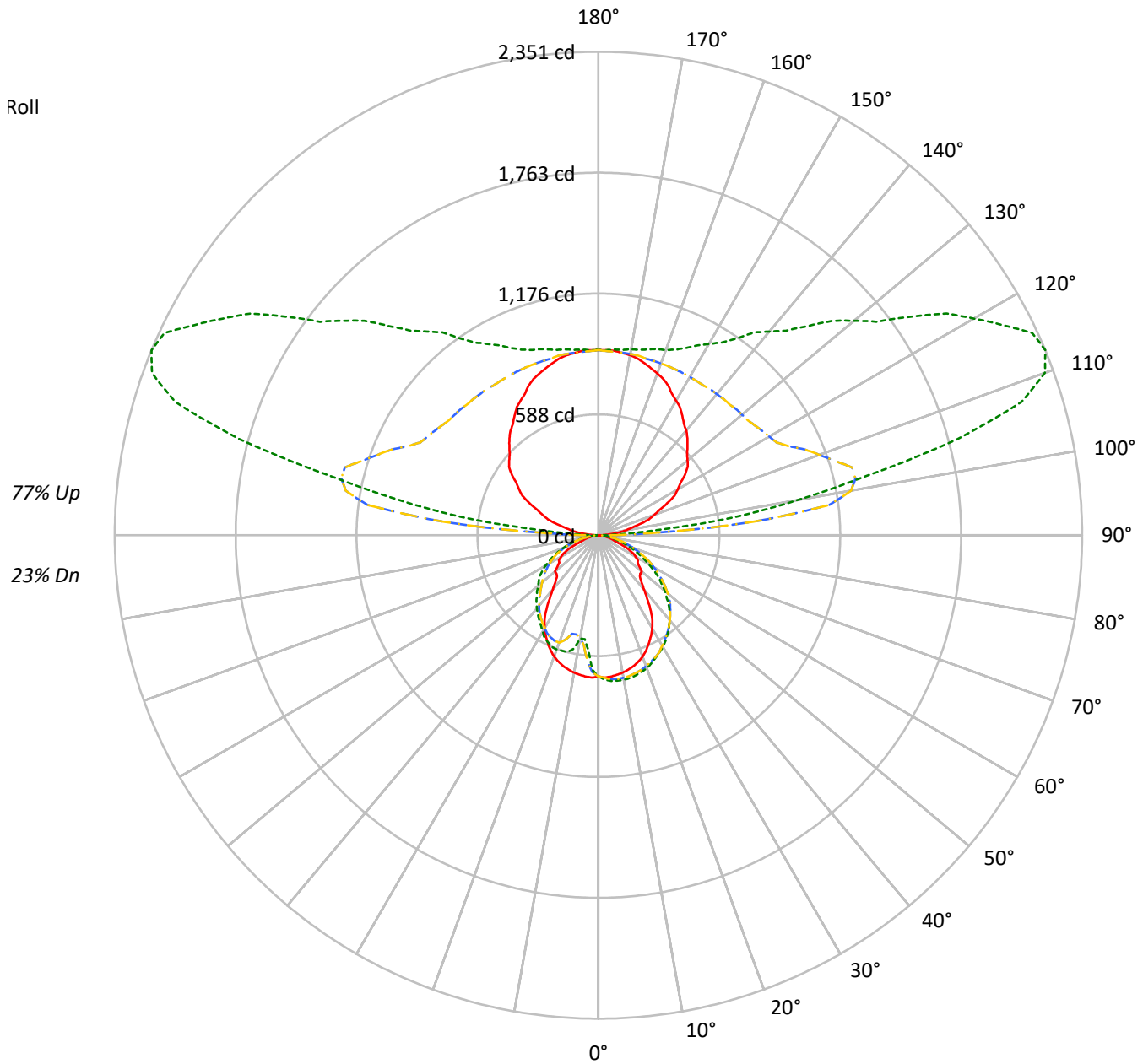
Test Method: LM-79-2019  
Report Number: P935898  
REPORT IS A COMBINATION OF REPORTS P933770 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7622.2 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 55.6  
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

TEST NUMBER: P935898  
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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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	23	23	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	19	19	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	16	16	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	14	14	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	12	12	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	11	11	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	10	10	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	9	9	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	8	8	8	6

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

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6414	6434	6414	5059
10°	6365	6338	6365	4532
15°	6288	6201	6288	5178
20°	6149	6038	6149	5189
25°	5873	5801	5873	5079
30°	5519	5604	5519	4838
35°	4913	5354	4913	4572
40°	4086	5062	4086	4371
45°	3644	4718	3644	4140
50°	3863	4308	3863	3909
55°	3624	3868	3624	3777
60°	3723	3285	3723	3459
65°	3357	2715	3357	3034
70°	2310	2164	2310	2545
75°	2000	1599	2000	1916
80°	1582	1058	1582	1152
85°	861	560	861	476

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5596 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	0.8
10°-20°	176.0	2.3
20°-30°	272.1	3.6
30°-40°	324.9	4.3
40°-50°	326.8	4.3
50°-60°	284.3	3.7
60°-70°	201.6	2.6
70°-80°	106.7	1.4
80°-90°	30.0	0.4
90°-100°	439.0	5.8
100°-110°	1154.1	15.1
110°-120°	1196.6	15.7
120°-130°	959.8	12.6
130°-140°	753.1	9.9
140°-150°	578.1	7.6
150°-160°	416.3	5.5
160°-170°	254.7	3.3
170°-180°	86.1	1.1
0°-30°	510.2	6.7
0°-40°	835.1	11.0
0°-60°	1446.2	19.0
0°-90°	1784.5	23.4
90°-120°	2789.6	36.6
90°-150°	5080.6	66.7
90°-180°	5838.0	76.6
0°-180°	7622.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	687	687	687	687	687	
5°	690	712	690	560	690	65
15°	659	705	659	589	659	185
25°	580	658	580	576	580	266
35°	441	587	441	501	441	273
45°	285	484	285	424	285	228
55°	232	357	232	348	232	213
65°	161	215	161	240	161	154
75°	61	102	61	122	61	64
85°	10	26	10	22	10	14
90°	6	23	6	23	6	5
95°	58	265	58	265	58	64
105°	208	1807	208	1807	208	220
115°	369	2327	369	2327	369	365
125°	514	1853	514	1853	514	456
135°	612	1438	612	1438	612	474
145°	710	1166	710	1166	710	445
155°	803	1004	803	1004	803	369
165°	866	936	866	936	866	244
175°	900	907	900	907	900	85
180°	900	900	900	900	900	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	692.7	692.7	696.6	698.0	698.0	696.0	694.1	696.0	701.8	703.8	703.1
5°	690.1	695.4	702.5	703.8	705.1	704.5	703.1	704.5	711.0	712.2	712.9
7.5°	685.0	694.7	703.8	705.7	707.7	705.7	705.1	706.4	712.9	714.2	714.2
10°	678.5	692.1	702.5	703.8	705.7	703.8	703.8	706.4	712.9	714.2	714.8
12.5°	669.4	688.2	698.0	699.2	701.8	701.2	700.6	703.1	709.7	711.0	711.0
15°	658.9	681.0	690.1	691.5	696.0	694.7	694.7	697.3	704.5	706.4	705.7
17.5°	644.7	672.0	682.4	684.3	687.6	686.9	687.6	690.1	696.6	698.0	698.6
20°	628.4	659.6	672.0	673.9	677.1	677.1	677.1	680.4	686.9	689.5	689.5
22.5°	606.3	646.6	659.6	661.0	664.8	664.8	666.1	670.6	676.5	677.1	677.1
25°	580.3	632.3	643.3	647.3	651.2	653.1	655.0	657.7	659.6	658.9	659.6
27.5°	553.0	614.2	628.4	631.0	636.2	638.2	640.8	641.4	642.1	644.0	642.7
30°	522.5	588.8	610.2	612.8	621.2	622.6	620.0	621.2	624.5	625.8	627.1
32.5°	488.1	551.1	591.4	597.2	605.0	601.2	600.5	602.4	607.7	607.7	608.9
35°	441.3	521.8	573.8	579.1	584.9	580.3	583.0	583.5	586.8	588.8	588.1
37.5°	389.9	496.5	555.6	559.5	564.1	558.2	562.1	564.1	566.7	565.4	565.4
40°	344.4	456.9	534.2	536.8	540.7	536.1	540.0	541.4	542.6	541.4	540.7
42.5°	310.7	413.3	511.4	514.7	512.1	515.3	516.7	519.3	517.3	514.7	514.7
45°	284.6	401.7	486.7	490.6	486.7	492.0	493.9	493.9	488.1	486.7	486.1
47.5°	276.2	378.2	462.0	462.0	460.1	466.6	469.9	465.3	459.5	457.5	457.5
50°	275.6	352.2	428.3	425.7	434.8	442.5	439.3	434.8	430.2	423.1	423.1
52.5°	250.2	320.4	384.7	394.5	408.7	413.3	408.1	403.6	395.7	392.5	389.9
55°	232.0	287.2	345.1	364.5	379.6	385.4	375.6	371.0	359.4	357.5	356.1
57.5°	228.1	239.1	308.7	333.3	351.6	351.0	345.1	336.6	326.8	324.9	324.3
60°	209.3	172.9	269.7	298.9	317.7	315.8	310.7	302.8	293.7	292.4	291.2
62.5°	189.7	125.4	225.5	258.6	285.3	284.6	280.1	268.4	261.9	258.6	256.0
65°	161.1	105.2	160.6	215.1	253.5	254.8	245.0	236.5	229.4	225.5	224.8
67.5°	122.9	85.8	108.5	179.4	222.9	221.6	209.3	205.3	196.2	194.3	190.4
70°	91.0	57.2	75.4	145.5	193.0	189.7	180.0	175.5	167.1	162.5	159.9
72.5°	75.4	46.1	55.2	113.1	162.5	158.5	150.1	145.0	137.8	133.9	131.3
75°	61.0	48.7	42.2	83.8	131.9	129.4	121.5	116.3	110.5	105.2	105.9
77.5°	44.9	45.4	33.8	61.7	104.7	100.8	96.2	89.7	87.1	81.9	81.9
80°	33.8	35.8	25.4	42.2	75.4	75.4	71.5	67.0	62.4	59.8	59.8
82.5°	22.8	22.8	18.8	26.6	51.4	49.4	46.8	45.4	42.9	41.6	41.6
85°	10.4	13.0	11.7	16.3	27.9	29.3	29.3	27.9	27.3	26.0	26.6
87.5°	3.3	5.8	7.2	9.1	14.3	14.9	15.6	15.6	15.6	16.3	16.3
90°	6.0	10.9	15.7	17.0	26.6	39.5	45.9	40.8	30.6	23.0	23.0
92.5°	24.1	65.2	106.4	116.7	164.0	227.0	258.6	226.6	162.8	114.8	110.3
95°	58.0	133.2	208.4	227.2	403.5	638.6	756.1	674.7	511.9	389.8	376.0
97.5°	100.3	166.7	233.0	249.6	543.5	935.5	1131.4	1080.0	977.0	899.9	873.6
100°	132.9	193.1	253.3	268.3	594.5	1029.4	1246.8	1250.6	1258.1	1263.8	1232.4
102.5°	160.8	217.0	273.1	287.1	617.9	1058.9	1279.5	1345.0	1476.1	1574.4	1547.6
105°	207.9	255.5	303.0	314.9	635.2	1062.2	1275.8	1422.7	1716.6	1937.0	1922.6
107.5°	256.3	300.6	345.0	356.0	638.5	1015.0	1203.3	1408.2	1818.1	2125.6	2129.1
110°	288.9	328.9	369.0	379.0	633.6	973.1	1142.8	1372.0	1830.2	2174.0	2189.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	320.9	359.1	397.3	406.8	633.8	936.5	1087.9	1322.4	1791.4	2143.1	2166.2
115°	369.3	404.5	439.6	448.5	639.6	894.6	1022.0	1247.9	1699.7	2038.6	2070.7
117.5°	417.1	449.0	481.0	489.0	651.6	868.3	976.7	1180.5	1588.3	1894.1	1929.7
120°	444.8	474.9	504.9	512.5	661.1	859.4	958.5	1144.8	1517.4	1796.8	1831.3
122.5°	472.0	502.3	532.8	540.3	675.1	854.9	944.7	1112.4	1447.9	1699.5	1733.5
125°	513.8	541.4	569.1	576.0	693.8	851.0	929.6	1072.0	1357.0	1570.7	1602.1
127.5°	547.6	575.5	603.4	610.4	712.5	848.7	916.9	1039.3	1283.9	1467.5	1493.9
130°	565.7	595.7	625.8	633.3	726.3	850.1	912.0	1020.9	1238.8	1402.1	1426.6
132.5°	584.4	614.5	644.6	652.1	737.3	851.0	907.8	1005.2	1200.3	1346.5	1368.4
135°	612.2	639.6	667.0	673.8	749.4	850.1	900.5	982.2	1145.5	1267.9	1286.8
137.5°	640.6	667.7	694.9	701.7	767.5	855.4	899.3	968.3	1106.4	1210.0	1225.4
140°	664.2	689.2	714.2	720.5	778.7	856.3	895.1	954.7	1073.9	1163.4	1177.8
142.5°	682.4	705.4	728.5	734.3	787.9	859.3	895.1	947.5	1052.2	1130.8	1143.2
145°	710.2	730.3	750.4	755.4	800.0	859.4	889.1	931.9	1017.5	1081.8	1091.2
147.5°	737.9	757.6	777.1	782.1	817.7	865.3	889.1	922.8	990.1	1040.7	1048.5
150°	756.1	773.8	791.5	795.9	826.9	868.3	889.1	917.5	974.4	1017.2	1023.5
152.5°	774.8	788.3	801.7	805.0	833.0	870.4	889.1	913.4	962.0	998.5	1003.2
155°	802.6	812.6	822.5	825.0	846.3	874.8	889.1	908.4	947.1	976.1	979.3
157.5°	823.2	832.9	842.4	844.9	859.6	879.3	889.1	904.1	934.1	956.7	958.9
160°	837.0	844.6	852.1	854.0	865.7	881.3	889.1	901.9	927.7	947.0	948.3
162.5°	851.0	856.6	862.2	863.7	872.1	883.4	889.1	899.9	921.7	938.0	939.2
165°	866.1	871.1	876.3	877.5	881.4	886.5	889.1	896.8	912.4	924.0	925.3
167.5°	879.9	882.4	884.8	885.4	888.6	892.9	895.1	900.2	910.4	918.0	918.6
170°	889.1	891.5	893.9	894.5	894.7	895.0	895.1	900.2	910.4	918.0	918.0
172.5°	893.9	894.4	895.0	895.1	895.1	895.1	895.1	899.1	907.2	913.2	912.7
175°	900.5	900.5	900.5	900.5	898.7	896.2	895.1	897.6	902.7	906.6	906.6
177.5°	900.5	900.5	900.5	900.5	899.1	897.3	896.3	898.4	902.3	905.3	904.8
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	704.5	702.5	704.5	703.1	703.8	701.8	696.0	694.1	696.0	698.0	698.0
5°	712.9	711.6	712.9	712.9	712.2	711.0	704.5	703.1	704.5	705.1	703.8
7.5°	715.5	713.6	715.5	714.2	714.2	712.9	706.4	705.1	705.7	707.7	705.7
10°	715.5	713.6	715.5	714.8	714.2	712.9	706.4	703.8	703.8	705.7	703.8
12.5°	712.2	711.0	712.2	711.0	711.0	709.7	703.1	700.6	701.2	701.8	699.2
15°	707.1	705.1	707.1	705.7	706.4	704.5	697.3	694.7	694.7	696.0	691.5
17.5°	699.2	696.6	699.2	698.6	698.0	696.6	690.1	687.6	686.9	687.6	684.3
20°	690.1	688.2	690.1	689.5	689.5	686.9	680.4	677.1	677.1	677.1	673.9
22.5°	675.9	673.9	675.9	677.1	677.1	676.5	670.6	666.1	664.8	664.8	661.0
25°	659.6	657.7	659.6	659.6	658.9	659.6	657.7	655.0	653.1	651.2	647.3
27.5°	644.0	642.7	644.0	642.7	644.0	642.1	641.4	640.8	638.2	636.2	631.0
30°	628.4	627.1	628.4	627.1	625.8	624.5	621.2	620.0	622.6	621.2	612.8
32.5°	608.9	607.7	608.9	608.9	607.7	607.7	602.4	600.5	601.2	605.0	597.2
35°	588.8	586.8	588.8	588.1	588.8	586.8	583.5	583.0	580.3	584.9	579.1
37.5°	565.4	563.5	565.4	565.4	565.4	566.7	564.1	562.1	558.2	564.1	559.5
40°	541.4	538.8	541.4	540.7	541.4	542.6	541.4	540.0	536.1	540.7	536.8
42.5°	514.1	513.4	514.1	514.7	514.7	517.3	519.3	516.7	515.3	512.1	514.7
45°	484.8	483.5	484.8	486.1	486.7	488.1	493.9	493.9	492.0	486.7	490.6
47.5°	453.6	450.4	453.6	457.5	457.5	459.5	465.3	469.9	466.6	460.1	462.0
50°	420.4	421.1	420.4	423.1	423.1	430.2	434.8	439.3	442.5	434.8	425.7
52.5°	388.0	387.3	388.0	389.9	392.5	395.7	403.6	408.1	413.3	408.7	394.5
55°	355.4	356.8	355.4	356.1	357.5	359.4	371.0	375.6	385.4	379.6	364.5
57.5°	323.0	321.0	323.0	324.3	324.9	326.8	336.6	345.1	351.0	351.6	333.3
60°	285.3	282.7	285.3	291.2	292.4	293.7	302.8	310.7	315.8	317.7	298.9
62.5°	252.1	247.6	252.1	256.0	258.6	261.9	268.4	280.1	284.6	285.3	258.6
65°	217.1	215.1	217.1	224.8	225.5	229.4	236.5	245.0	254.8	253.5	215.1
67.5°	185.2	185.2	185.2	190.4	194.3	196.2	205.3	209.3	221.6	222.9	179.4
70°	156.0	155.3	156.0	159.9	162.5	167.1	175.5	180.0	189.7	193.0	145.5
72.5°	128.0	127.3	128.0	131.3	133.9	137.8	145.0	150.1	158.5	162.5	113.1
75°	103.3	102.0	103.3	105.9	105.2	110.5	116.3	121.5	129.4	131.9	83.8
77.5°	79.3	79.3	79.3	81.9	81.9	87.1	89.7	96.2	100.8	104.7	61.7
80°	59.1	58.5	59.1	59.8	59.8	62.4	67.0	71.5	75.4	75.4	42.2
82.5°	41.6	40.3	41.6	41.6	41.6	42.9	45.4	46.8	49.4	51.4	26.6
85°	26.0	26.0	26.0	26.6	26.0	27.3	27.9	29.3	29.3	27.9	16.3
87.5°	16.9	16.3	16.9	16.3	16.3	15.6	15.6	15.6	14.9	14.3	9.1
90°	23.0	23.0	23.0	23.0	23.0	30.6	40.8	45.9	39.5	26.6	17.0
92.5°	92.0	73.7	92.0	110.3	114.8	162.8	226.6	258.6	227.0	164.0	116.7
95°	320.6	265.3	320.6	376.0	389.8	511.9	674.7	756.1	638.6	403.5	227.2
97.5°	768.3	663.0	768.3	873.6	899.9	977.0	1080.0	1131.4	935.5	543.5	249.6
100°	1107.0	981.5	1107.0	1232.4	1263.8	1258.1	1250.6	1246.8	1029.4	594.5	268.3
102.5°	1440.1	1332.7	1440.1	1547.6	1574.4	1476.1	1345.0	1279.5	1058.9	617.9	287.1
105°	1864.8	1807.1	1864.8	1922.6	1937.0	1716.6	1422.7	1275.8	1062.2	635.2	314.9
107.5°	2143.0	2157.0	2143.0	2129.1	2125.6	1818.1	1408.2	1203.3	1015.0	638.5	356.0
110°	2249.1	2309.3	2249.1	2189.0	2174.0	1830.2	1372.0	1142.8	973.1	633.6	379.0





TEST NUMBER: P935898

CATALOG NUMBER: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2258.6	2351.0	2258.6	2166.2	2143.1	1791.4	1322.4	1087.9	936.5	633.8	406.8
115°	2198.8	2326.9	2198.8	2070.7	2038.6	1699.7	1247.9	1022.0	894.6	639.6	448.5
117.5°	2071.7	2213.8	2071.7	1929.7	1894.1	1588.3	1180.5	976.7	868.3	651.6	489.0
120°	1969.4	2107.5	1969.4	1831.3	1796.8	1517.4	1144.8	958.5	859.4	661.1	512.5
122.5°	1869.8	2005.9	1869.8	1733.5	1699.5	1447.9	1112.4	944.7	854.9	675.1	540.3
125°	1727.5	1853.0	1727.5	1602.1	1570.7	1357.0	1072.0	929.6	851.0	693.8	576.0
127.5°	1599.7	1705.5	1599.7	1493.9	1467.5	1283.9	1039.3	916.9	848.7	712.5	610.4
130°	1524.3	1622.1	1524.3	1426.6	1402.1	1238.8	1020.9	912.0	850.1	726.3	633.3
132.5°	1455.9	1543.5	1455.9	1368.4	1346.5	1200.3	1005.2	907.8	851.0	737.3	652.1
135°	1362.3	1437.8	1362.3	1286.8	1267.9	1145.5	982.2	900.5	850.1	749.4	673.8
137.5°	1287.2	1348.9	1287.2	1225.4	1210.0	1106.4	968.3	899.3	855.4	767.5	701.7
140°	1235.6	1293.3	1235.6	1177.8	1163.4	1073.9	954.7	895.1	856.3	778.7	720.5
142.5°	1192.9	1242.5	1192.9	1143.2	1130.8	1052.2	947.5	895.1	859.3	787.9	734.3
145°	1128.9	1166.5	1128.9	1091.2	1081.8	1017.5	931.9	889.1	859.4	800.0	755.4
147.5°	1079.7	1110.9	1079.7	1048.5	1040.7	990.1	922.8	889.1	865.3	817.7	782.1
150°	1048.7	1073.9	1048.7	1023.5	1017.2	974.4	917.5	889.1	868.3	826.9	795.9
152.5°	1022.3	1041.3	1022.3	1003.2	998.5	962.0	913.4	889.1	870.4	833.0	805.0
155°	991.9	1004.5	991.9	979.3	976.1	947.1	908.4	889.1	874.8	846.3	825.0
157.5°	967.7	976.7	967.7	958.9	956.7	934.1	904.1	889.1	879.3	859.6	844.9
160°	953.4	958.5	953.4	948.3	947.0	927.7	901.9	889.1	881.3	865.7	854.0
162.5°	944.0	948.8	944.0	939.2	938.0	921.7	899.9	889.1	883.4	872.1	863.7
165°	930.4	935.6	930.4	925.3	924.0	912.4	896.8	889.1	886.5	881.4	877.5
167.5°	920.7	922.9	920.7	918.6	918.0	910.4	900.2	895.1	892.9	888.6	885.4
170°	918.0	918.0	918.0	918.0	918.0	910.4	900.2	895.1	895.0	894.7	894.5
172.5°	910.9	909.0	910.9	912.7	913.2	907.2	899.1	895.1	895.1	895.1	895.1
175°	906.6	906.6	906.6	906.6	906.6	902.7	897.6	895.1	896.2	898.7	900.5
177.5°	902.6	900.5	902.6	904.8	905.3	902.3	898.4	896.3	897.3	899.1	900.5
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



TEST NUMBER: P935898

CATALOG NUMBER: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	696.6	692.7	692.7	686.2	683.6	681.7	678.5	668.7	666.1	663.5	667.4
5°	702.5	695.4	690.1	678.5	668.7	664.8	652.4	629.1	613.5	601.7	595.3
7.5°	703.8	694.7	685.0	666.8	643.3	633.0	595.3	552.4	540.7	530.3	523.7
10°	702.5	692.1	678.5	651.2	595.9	577.7	540.0	512.1	504.9	503.0	504.9
12.5°	698.0	688.2	669.4	623.8	546.5	534.2	512.1	495.8	494.6	497.8	515.3
15°	690.1	681.0	658.9	587.5	519.3	510.2	494.6	488.7	495.8	518.6	571.2
17.5°	682.4	672.0	644.7	551.7	498.5	492.0	480.9	492.6	532.9	563.5	581.0
20°	672.0	659.6	628.4	525.8	483.5	477.6	472.5	525.1	555.6	566.7	576.5
22.5°	659.6	646.6	606.3	507.6	467.9	463.4	466.6	543.3	555.6	563.5	571.9
25°	643.3	632.3	580.3	493.2	455.5	450.4	462.7	541.4	548.5	550.4	567.3
27.5°	628.4	614.2	553.0	480.2	440.6	438.7	466.0	532.9	538.1	540.0	558.2
30°	610.2	588.8	522.5	466.6	425.0	424.3	466.6	522.5	521.2	526.4	544.6
32.5°	591.4	551.1	488.1	449.7	410.1	409.4	462.0	506.9	505.6	512.7	526.4
35°	573.8	521.8	441.3	430.2	391.2	391.9	451.0	488.7	489.3	495.8	504.3
37.5°	555.6	496.5	389.9	408.7	373.1	373.1	436.0	471.8	470.5	472.5	484.1
40°	534.2	456.9	344.4	380.8	356.1	354.2	417.8	453.6	449.0	448.5	464.6
42.5°	511.4	413.3	310.7	343.8	336.6	334.0	395.7	431.5	423.1	425.0	445.8
45°	486.7	401.7	284.6	290.5	316.5	314.5	371.7	406.2	400.3	405.5	426.9
47.5°	462.0	378.2	276.2	241.1	295.1	294.4	345.1	381.5	378.2	383.4	406.2
50°	428.3	352.2	275.6	206.7	271.0	273.5	313.3	357.5	357.5	362.0	386.0
52.5°	384.7	320.4	250.2	187.1	243.0	250.9	285.3	336.6	337.9	342.4	364.0
55°	345.1	287.2	232.0	172.2	209.9	226.8	257.9	315.2	317.7	322.3	341.9
57.5°	308.7	239.1	228.1	154.7	179.4	195.6	233.9	294.4	295.6	299.6	318.4
60°	269.7	172.9	209.3	135.9	152.7	165.0	211.8	269.7	274.2	276.8	293.1
62.5°	225.5	125.4	189.7	122.9	139.7	142.3	193.7	246.3	252.1	254.1	263.9
65°	160.6	105.2	161.1	111.8	126.1	126.7	174.1	222.3	227.4	230.7	237.9
67.5°	108.5	85.8	122.9	101.4	115.7	116.3	155.3	194.3	201.5	204.1	208.6
70°	75.4	57.2	91.0	90.3	104.0	105.2	135.2	169.0	175.5	177.4	180.0
72.5°	55.2	46.1	75.4	81.2	91.7	92.9	114.3	140.4	146.9	148.8	150.1
75°	42.2	48.7	61.0	70.8	78.0	78.6	93.6	114.3	118.9	120.3	120.8
77.5°	33.8	45.4	44.9	57.2	63.7	62.4	73.5	88.4	92.2	92.2	92.2
80°	25.4	35.8	33.8	41.0	46.8	45.4	52.6	63.1	64.3	65.6	65.0
82.5°	18.8	22.8	22.8	26.0	31.2	29.9	35.1	41.0	41.0	41.0	42.2
85°	11.7	13.0	10.4	13.7	17.5	16.9	19.5	22.1	22.8	22.8	21.4
87.5°	7.2	5.8	3.3	5.2	7.8	7.8	9.1	9.8	9.1	9.1	9.1
90°	15.7	10.9	6.0	10.9	15.7	17.0	26.6	39.5	45.9	40.8	30.6
92.5°	106.4	65.2	24.1	65.2	106.4	116.7	164.0	227.0	258.6	226.6	162.8
95°	208.4	133.2	58.0	133.2	208.4	227.2	403.5	638.6	756.1	674.7	511.9
97.5°	233.0	166.7	100.3	166.7	233.0	249.6	543.5	935.5	1131.4	1080.0	977.0
100°	253.3	193.1	132.9	193.1	253.3	268.3	594.5	1029.4	1246.8	1250.6	1258.1
102.5°	273.1	217.0	160.8	217.0	273.1	287.1	617.9	1058.9	1279.5	1345.0	1476.1
105°	303.0	255.5	207.9	255.5	303.0	314.9	635.2	1062.2	1275.8	1422.7	1716.6
107.5°	345.0	300.6	256.3	300.6	345.0	356.0	638.5	1015.0	1203.3	1408.2	1818.1
110°	369.0	328.9	288.9	328.9	369.0	379.0	633.6	973.1	1142.8	1372.0	1830.2



TEST NUMBER: P935898

CATALOG NUMBER: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	397.3	359.1	320.9	359.1	397.3	406.8	633.8	936.5	1087.9	1322.4	1791.4
115°	439.6	404.5	369.3	404.5	439.6	448.5	639.6	894.6	1022.0	1247.9	1699.7
117.5°	481.0	449.0	417.1	449.0	481.0	489.0	651.6	868.3	976.7	1180.5	1588.3
120°	504.9	474.9	444.8	474.9	504.9	512.5	661.1	859.4	958.5	1144.8	1517.4
122.5°	532.8	502.3	472.0	502.3	532.8	540.3	675.1	854.9	944.7	1112.4	1447.9
125°	569.1	541.4	513.8	541.4	569.1	576.0	693.8	851.0	929.6	1072.0	1357.0
127.5°	603.4	575.5	547.6	575.5	603.4	610.4	712.5	848.7	916.9	1039.3	1283.9
130°	625.8	595.7	565.7	595.7	625.8	633.3	726.3	850.1	912.0	1020.9	1238.8
132.5°	644.6	614.5	584.4	614.5	644.6	652.1	737.3	851.0	907.8	1005.2	1200.3
135°	667.0	639.6	612.2	639.6	667.0	673.8	749.4	850.1	900.5	982.2	1145.5
137.5°	694.9	667.7	640.6	667.7	694.9	701.7	767.5	855.4	899.3	968.3	1106.4
140°	714.2	689.2	664.2	689.2	714.2	720.5	778.7	856.3	895.1	954.7	1073.9
142.5°	728.5	705.4	682.4	705.4	728.5	734.3	787.9	859.3	895.1	947.5	1052.2
145°	750.4	730.3	710.2	730.3	750.4	755.4	800.0	859.4	889.1	931.9	1017.5
147.5°	777.1	757.6	737.9	757.6	777.1	782.1	817.7	865.3	889.1	922.8	990.1
150°	791.5	773.8	756.1	773.8	791.5	795.9	826.9	868.3	889.1	917.5	974.4
152.5°	801.7	788.3	774.8	788.3	801.7	805.0	833.0	870.4	889.1	913.4	962.0
155°	822.5	812.6	802.6	812.6	822.5	825.0	846.3	874.8	889.1	908.4	947.1
157.5°	842.4	832.9	823.2	832.9	842.4	844.9	859.6	879.3	889.1	904.1	934.1
160°	852.1	844.6	837.0	844.6	852.1	854.0	865.7	881.3	889.1	901.9	927.7
162.5°	862.2	856.6	851.0	856.6	862.2	863.7	872.1	883.4	889.1	899.9	921.7
165°	876.3	871.1	866.1	871.1	876.3	877.5	881.4	886.5	889.1	896.8	912.4
167.5°	884.8	882.4	879.9	882.4	884.8	885.4	888.6	892.9	895.1	900.2	910.4
170°	893.9	891.5	889.1	891.5	893.9	894.5	894.7	895.0	895.1	900.2	910.4
172.5°	895.0	894.4	893.9	894.4	895.0	895.1	895.1	895.1	895.1	899.1	907.2
175°	900.5	900.5	900.5	900.5	900.5	900.5	898.7	896.2	895.1	897.6	902.7
177.5°	900.5	900.5	900.5	900.5	900.5	900.5	899.1	897.3	896.3	898.4	902.3
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



TEST NUMBER: P935898  
 CATALOG NUMBER: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	662.9	661.0	663.5	656.4	663.5	661.0	662.9	667.4	663.5	666.1	668.7
5°	581.6	578.4	568.0	559.5	568.0	578.4	581.6	595.3	601.7	613.5	629.1
7.5°	519.9	517.3	514.7	509.5	514.7	517.3	519.9	523.7	530.3	540.7	552.4
10°	506.2	506.9	510.8	510.2	510.8	506.9	506.2	504.9	503.0	504.9	512.1
12.5°	541.4	547.2	568.6	567.3	568.6	547.2	541.4	515.3	497.8	494.6	495.8
15°	581.6	583.5	588.1	588.8	588.1	583.5	581.6	571.2	518.6	495.8	488.7
17.5°	585.6	586.1	589.4	589.4	589.4	586.1	585.6	581.0	563.5	532.9	492.6
20°	582.3	583.5	590.1	591.4	590.1	583.5	582.3	576.5	566.7	555.6	525.1
22.5°	581.0	583.5	588.8	588.1	588.8	583.5	581.0	571.9	563.5	555.6	543.3
25°	574.5	574.5	575.1	575.8	575.1	574.5	574.5	567.3	550.4	548.5	541.4
27.5°	560.9	562.1	566.0	565.4	566.0	562.1	560.9	558.2	540.0	538.1	532.9
30°	548.5	547.2	543.9	541.4	543.9	547.2	548.5	544.6	526.4	521.2	522.5
32.5°	527.7	524.4	521.2	519.3	521.2	524.4	527.7	526.4	512.7	505.6	506.9
35°	503.0	503.7	503.0	501.1	503.0	503.7	503.0	504.3	495.8	489.3	488.7
37.5°	485.5	486.7	486.1	483.5	486.1	486.7	485.5	484.1	472.5	470.5	471.8
40°	467.3	467.9	467.3	465.3	467.3	467.9	467.3	464.6	448.5	449.0	453.6
42.5°	449.7	449.0	447.1	445.8	447.1	449.0	449.7	445.8	425.0	423.1	431.5
45°	429.6	430.2	426.3	424.3	426.3	430.2	429.6	426.9	405.5	400.3	406.2
47.5°	409.4	409.4	406.2	404.2	406.2	409.4	409.4	406.2	383.4	378.2	381.5
50°	388.0	387.3	382.8	382.1	382.8	387.3	388.0	386.0	362.0	357.5	357.5
52.5°	363.3	363.3	364.0	365.2	364.0	363.3	363.3	364.0	342.4	337.9	336.6
55°	341.9	342.4	347.0	348.4	347.0	342.4	341.9	341.9	322.3	317.7	315.2
57.5°	319.8	319.8	323.0	323.0	323.0	319.8	319.8	318.4	299.6	295.6	294.4
60°	294.4	295.6	298.3	297.7	298.3	295.6	294.4	293.1	276.8	274.2	269.7
62.5°	267.7	269.1	269.7	268.4	269.7	269.1	267.7	263.9	254.1	252.1	246.3
65°	239.8	241.1	241.8	240.4	241.8	241.1	239.8	237.9	230.7	227.4	222.3
67.5°	211.2	210.6	209.9	212.5	209.9	210.6	211.2	208.6	204.1	201.5	194.3
70°	182.0	182.0	181.3	182.7	181.3	182.0	182.0	180.0	177.4	175.5	169.0
72.5°	150.8	150.1	152.7	150.8	152.7	150.1	150.8	150.1	148.8	146.9	140.4
75°	120.3	121.5	120.3	122.2	120.3	121.5	120.3	120.8	120.3	118.9	114.3
77.5°	91.7	92.9	91.7	91.7	91.7	92.9	91.7	92.2	92.2	92.2	88.4
80°	65.0	64.3	64.3	63.7	64.3	64.3	65.0	65.0	65.6	64.3	63.1
82.5°	41.6	41.0	41.0	42.2	41.0	41.0	41.6	42.2	41.0	41.0	41.0
85°	22.8	23.4	22.1	22.1	22.1	23.4	22.8	21.4	22.8	22.8	22.1
87.5°	8.4	7.8	7.8	7.8	7.8	7.8	8.4	9.1	9.1	9.1	9.8
90°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	30.6	40.8	45.9	39.5
92.5°	114.8	110.3	92.0	73.7	92.0	110.3	114.8	162.8	226.6	258.6	227.0
95°	389.8	376.0	320.6	265.3	320.6	376.0	389.8	511.9	674.7	756.1	638.6
97.5°	899.9	873.6	768.3	663.0	768.3	873.6	899.9	977.0	1080.0	1131.4	935.5
100°	1263.8	1232.4	1107.0	981.5	1107.0	1232.4	1263.8	1258.1	1250.6	1246.8	1029.4
102.5°	1574.4	1547.6	1440.1	1332.7	1440.1	1547.6	1574.4	1476.1	1345.0	1279.5	1058.9
105°	1937.0	1922.6	1864.8	1807.1	1864.8	1922.6	1937.0	1716.6	1422.7	1275.8	1062.2
107.5°	2125.6	2129.1	2143.0	2157.0	2143.0	2129.1	2125.6	1818.1	1408.2	1203.3	1015.0
110°	2174.0	2189.0	2249.1	2309.3	2249.1	2189.0	2174.0	1830.2	1372.0	1142.8	973.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2143.1	2166.2	2258.6	2351.0	2258.6	2166.2	2143.1	1791.4	1322.4	1087.9	936.5
115°	2038.6	2070.7	2198.8	2326.9	2198.8	2070.7	2038.6	1699.7	1247.9	1022.0	894.6
117.5°	1894.1	1929.7	2071.7	2213.8	2071.7	1929.7	1894.1	1588.3	1180.5	976.7	868.3
120°	1796.8	1831.3	1969.4	2107.5	1969.4	1831.3	1796.8	1517.4	1144.8	958.5	859.4
122.5°	1699.5	1733.5	1869.8	2005.9	1869.8	1733.5	1699.5	1447.9	1112.4	944.7	854.9
125°	1570.7	1602.1	1727.5	1853.0	1727.5	1602.1	1570.7	1357.0	1072.0	929.6	851.0
127.5°	1467.5	1493.9	1599.7	1705.5	1599.7	1493.9	1467.5	1283.9	1039.3	916.9	848.7
130°	1402.1	1426.6	1524.3	1622.1	1524.3	1426.6	1402.1	1238.8	1020.9	912.0	850.1
132.5°	1346.5	1368.4	1455.9	1543.5	1455.9	1368.4	1346.5	1200.3	1005.2	907.8	851.0
135°	1267.9	1286.8	1362.3	1437.8	1362.3	1286.8	1267.9	1145.5	982.2	900.5	850.1
137.5°	1210.0	1225.4	1287.2	1348.9	1287.2	1225.4	1210.0	1106.4	968.3	899.3	855.4
140°	1163.4	1177.8	1235.6	1293.3	1235.6	1177.8	1163.4	1073.9	954.7	895.1	856.3
142.5°	1130.8	1143.2	1192.9	1242.5	1192.9	1143.2	1130.8	1052.2	947.5	895.1	859.3
145°	1081.8	1091.2	1128.9	1166.5	1128.9	1091.2	1081.8	1017.5	931.9	889.1	859.4
147.5°	1040.7	1048.5	1079.7	1110.9	1079.7	1048.5	1040.7	990.1	922.8	889.1	865.3
150°	1017.2	1023.5	1048.7	1073.9	1048.7	1023.5	1017.2	974.4	917.5	889.1	868.3
152.5°	998.5	1003.2	1022.3	1041.3	1022.3	1003.2	998.5	962.0	913.4	889.1	870.4
155°	976.1	979.3	991.9	1004.5	991.9	979.3	976.1	947.1	908.4	889.1	874.8
157.5°	956.7	958.9	967.7	976.7	967.7	958.9	956.7	934.1	904.1	889.1	879.3
160°	947.0	948.3	953.4	958.5	953.4	948.3	947.0	927.7	901.9	889.1	881.3
162.5°	938.0	939.2	944.0	948.8	944.0	939.2	938.0	921.7	899.9	889.1	883.4
165°	924.0	925.3	930.4	935.6	930.4	925.3	924.0	912.4	896.8	889.1	886.5
167.5°	918.0	918.6	920.7	922.9	920.7	918.6	918.0	910.4	900.2	895.1	892.9
170°	918.0	918.0	918.0	918.0	918.0	918.0	918.0	910.4	900.2	895.1	895.0
172.5°	913.2	912.7	910.9	909.0	910.9	912.7	913.2	907.2	899.1	895.1	895.1
175°	906.6	906.6	906.6	906.6	906.6	906.6	906.6	902.7	897.6	895.1	896.2
177.5°	905.3	904.8	902.6	900.5	902.6	904.8	905.3	902.3	898.4	896.3	897.3
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	686.9	686.9	686.9	686.9	686.9
2.5°	678.5	681.7	683.6	686.2	692.7
5°	652.4	664.8	668.7	678.5	690.1
7.5°	595.3	633.0	643.3	666.8	685.0
10°	540.0	577.7	595.9	651.2	678.5
12.5°	512.1	534.2	546.5	623.8	669.4
15°	494.6	510.2	519.3	587.5	658.9
17.5°	480.9	492.0	498.5	551.7	644.7
20°	472.5	477.6	483.5	525.8	628.4
22.5°	466.6	463.4	467.9	507.6	606.3
25°	462.7	450.4	455.5	493.2	580.3
27.5°	466.0	438.7	440.6	480.2	553.0
30°	466.6	424.3	425.0	466.6	522.5
32.5°	462.0	409.4	410.1	449.7	488.1
35°	451.0	391.9	391.2	430.2	441.3
37.5°	436.0	373.1	373.1	408.7	389.9
40°	417.8	354.2	356.1	380.8	344.4
42.5°	395.7	334.0	336.6	343.8	310.7
45°	371.7	314.5	316.5	290.5	284.6
47.5°	345.1	294.4	295.1	241.1	276.2
50°	313.3	273.5	271.0	206.7	275.6
52.5°	285.3	250.9	243.0	187.1	250.2
55°	257.9	226.8	209.9	172.2	232.0
57.5°	233.9	195.6	179.4	154.7	228.1
60°	211.8	165.0	152.7	135.9	209.3
62.5°	193.7	142.3	139.7	122.9	189.7
65°	174.1	126.7	126.1	111.8	161.1
67.5°	155.3	116.3	115.7	101.4	122.9
70°	135.2	105.2	104.0	90.3	91.0
72.5°	114.3	92.9	91.7	81.2	75.4
75°	93.6	78.6	78.0	70.8	61.0
77.5°	73.5	62.4	63.7	57.2	44.9
80°	52.6	45.4	46.8	41.0	33.8
82.5°	35.1	29.9	31.2	26.0	22.8
85°	19.5	16.9	17.5	13.7	10.4
87.5°	9.1	7.8	7.8	5.2	3.3
90°	26.6	17.0	15.7	10.9	6.0
92.5°	164.0	116.7	106.4	65.2	24.1
95°	403.5	227.2	208.4	133.2	58.0
97.5°	543.5	249.6	233.0	166.7	100.3
100°	594.5	268.3	253.3	193.1	132.9
102.5°	617.9	287.1	273.1	217.0	160.8
105°	635.2	314.9	303.0	255.5	207.9
107.5°	638.5	356.0	345.0	300.6	256.3
110°	633.6	379.0	369.0	328.9	288.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	633.8	406.8	397.3	359.1	320.9
115°	639.6	448.5	439.6	404.5	369.3
117.5°	651.6	489.0	481.0	449.0	417.1
120°	661.1	512.5	504.9	474.9	444.8
122.5°	675.1	540.3	532.8	502.3	472.0
125°	693.8	576.0	569.1	541.4	513.8
127.5°	712.5	610.4	603.4	575.5	547.6
130°	726.3	633.3	625.8	595.7	565.7
132.5°	737.3	652.1	644.6	614.5	584.4
135°	749.4	673.8	667.0	639.6	612.2
137.5°	767.5	701.7	694.9	667.7	640.6
140°	778.7	720.5	714.2	689.2	664.2
142.5°	787.9	734.3	728.5	705.4	682.4
145°	800.0	755.4	750.4	730.3	710.2
147.5°	817.7	782.1	777.1	757.6	737.9
150°	826.9	795.9	791.5	773.8	756.1
152.5°	833.0	805.0	801.7	788.3	774.8
155°	846.3	825.0	822.5	812.6	802.6
157.5°	859.6	844.9	842.4	832.9	823.2
160°	865.7	854.0	852.1	844.6	837.0
162.5°	872.1	863.7	862.2	856.6	851.0
165°	881.4	877.5	876.3	871.1	866.1
167.5°	888.6	885.4	884.8	882.4	879.9
170°	894.7	894.5	893.9	891.5	889.1
172.5°	895.1	895.1	895.0	894.4	893.9
175°	898.7	900.5	900.5	900.5	900.5
177.5°	899.1	900.5	900.5	900.5	900.5
180°	900.5	900.5	900.5	900.5	900.5



TEST NUMBER: P935898  
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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	8.02	8.68	9.18	9.83	11.43	10.82	11.48	11.97	12.62	14.23
	3H	8.48	9.08	9.64	10.23	11.85	12.14	12.73	13.30	13.88	15.50
	4H	8.66	9.23	9.84	10.38	12.00	12.56	13.13	13.74	14.28	15.91
	6H	8.77	9.29	9.95	10.44	12.08	12.83	13.35	14.01	14.50	16.14
	8H	8.77	9.26	9.95	10.43	12.06	12.90	13.39	14.08	14.56	16.19
	12H	8.73	9.20	9.92	10.36	12.01	12.92	13.39	14.11	14.55	16.21
4H	2H	9.02	9.58	10.20	10.74	12.36	11.20	11.77	12.38	12.92	14.54
	3H	10.03	10.50	11.21	11.67	13.31	12.68	13.15	13.87	14.33	15.97
	4H	10.29	10.73	11.48	11.89	13.55	13.19	13.63	14.38	14.79	16.45
	6H	10.41	10.78	11.60	11.97	13.61	13.54	13.91	14.73	15.10	16.74
	8H	10.41	10.76	11.60	11.93	13.60	13.64	13.98	14.83	15.16	16.82
	12H	10.37	10.68	11.57	11.87	13.54	13.68	13.99	14.88	15.18	16.85
8H	4H	10.73	11.07	11.92	12.25	13.91	13.30	13.65	14.49	14.83	16.49
	6H	10.98	11.27	12.19	12.49	14.15	13.72	14.01	14.93	15.23	16.89
	8H	11.02	11.27	12.23	12.47	14.15	13.87	14.12	15.08	15.31	16.99
	12H	11.00	11.21	12.21	12.41	14.12	13.95	14.17	15.17	15.36	17.08
12H	4H	10.72	11.04	11.93	12.23	13.89	13.26	13.57	14.46	14.76	16.43
	6H	11.04	11.29	12.25	12.48	14.16	13.72	13.97	14.93	15.16	16.84
	8H	11.10	11.31	12.31	12.51	14.22	13.86	14.08	15.08	15.28	16.99