

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: P934555

Luminaire Tested: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934555
REPORT IS A COMBINATION OF REPORTS P933701 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

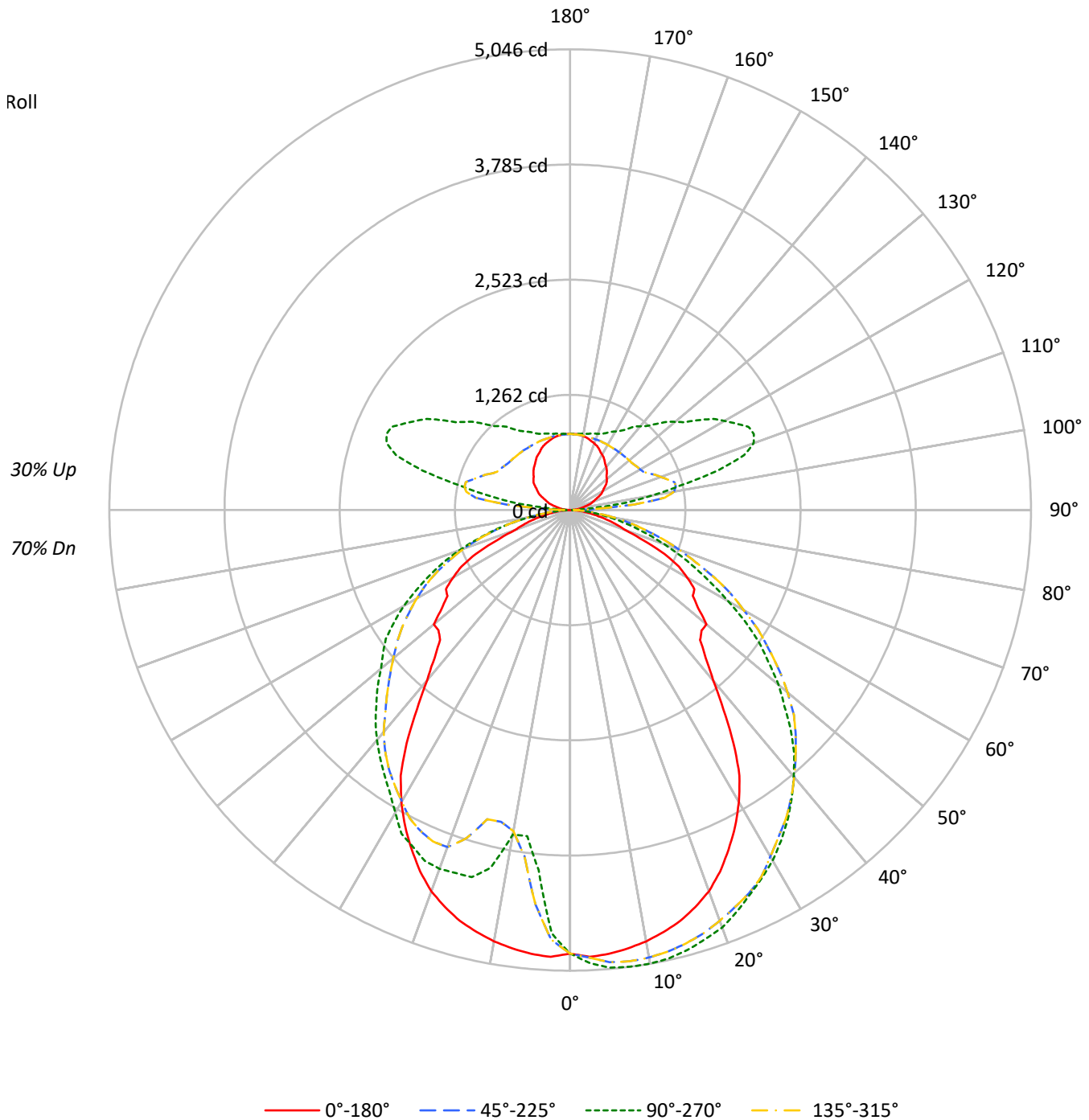
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18002.7 lumens
Efficiency: N/A
Efficacy: 107.2 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): 168
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
RCR																				
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15023	15023	15023	15023
5°	15141	15165	15141	11925
10°	15046	14939	15046	10680
15°	14887	14615	14887	12204
20°	14582	14231	14582	12229
25°	13950	13672	13950	11970
30°	13132	13208	13132	11401
35°	11713	12621	11713	10776
40°	9765	11930	9765	10303
45°	8731	11120	8731	9760
50°	9283	10155	9283	9215
55°	8742	9115	8742	8899
60°	9023	7742	9023	8151
65°	8194	6400	8194	7154
70°	5688	5100	5688	5996
75°	5006	3770	5006	4514
80°	4065	2493	4065	2714
85°	2382	1320	2382	1122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.4	2.4
10°-20°	1244.8	6.9
20°-30°	1924.3	10.7
30°-40°	2297.2	12.8
40°-50°	2310.7	12.8
50°-60°	2010.6	11.2
60°-70°	1425.5	7.9
70°-80°	754.2	4.2
80°-90°	191.0	1.1
90°-100°	406.5	2.3
100°-110°	1068.7	5.9
110°-120°	1108.1	6.2
120°-130°	888.9	4.9
130°-140°	697.4	3.9
140°-150°	535.3	3.0
150°-160°	385.5	2.1
160°-170°	235.9	1.3
170°-180°	79.7	0.4
0°-30°	3607.6	20.0
0°-40°	5904.8	32.8
0°-60°	10226.0	56.8
0°-90°	12596.7	70.0
90°-120°	2583.3	14.3
90°-150°	4704.9	26.1
90°-180°	5406.0	30.0
0°-180°	18002.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4857	4857	4857	4857	4857	
5°	4880	5032	4880	3956	4880	463
15°	4660	4986	4660	4163	4660	1311
25°	4104	4650	4104	4071	4104	1884
35°	3120	4149	3120	3543	3120	1930
45°	2013	3419	2013	3001	2013	1612
55°	1640	2523	1640	2463	1640	1507
65°	1140	1521	1140	1700	1140	1089
75°	432	721	432	864	432	454
85°	74	184	74	156	74	99
90°	6	21	6	21	6	8
95°	54	246	54	246	54	60
105°	192	1674	192	1674	192	204
115°	342	2155	342	2155	342	338
125°	476	1716	476	1716	476	422
135°	567	1332	567	1332	567	439
145°	658	1080	658	1080	658	412
155°	743	930	743	930	743	342
165°	802	866	802	866	802	226
175°	834	840	834	840	834	79
180°	834	834	834	834	834	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4898.5	4898.5	4926.0	4935.2	4935.2	4921.4	4907.6	4921.4	4962.7	4976.6	4972.0
5°	4880.0	4916.8	4967.3	4976.6	4985.7	4981.1	4972.0	4981.1	5027.1	5036.3	5040.8
7.5°	4843.2	4912.2	4976.6	4990.3	5004.1	4990.3	4985.7	4994.9	5040.8	5050.1	5050.1
10°	4797.4	4893.8	4967.3	4976.6	4990.3	4976.6	4976.6	4994.9	5040.8	5050.1	5054.7
12.5°	4733.0	4866.2	4935.2	4944.4	4962.7	4958.1	4953.6	4972.0	5017.9	5027.1	5027.1
15°	4659.5	4815.7	4880.0	4889.2	4921.4	4912.2	4912.2	4930.6	4981.1	4994.9	4990.3
17.5°	4558.4	4751.4	4824.9	4838.7	4861.6	4857.1	4861.6	4880.0	4926.0	4935.2	4939.7
20°	4443.5	4664.0	4751.4	4765.1	4788.1	4788.1	4788.1	4811.1	4857.1	4875.5	4875.5
22.5°	4287.3	4572.1	4664.0	4673.3	4700.9	4700.9	4710.0	4742.1	4783.5	4788.1	4788.1
25°	4103.5	4471.0	4549.2	4576.8	4604.4	4618.1	4631.9	4650.3	4664.0	4659.5	4664.0
27.5°	3910.5	4342.4	4443.5	4461.9	4498.7	4512.4	4530.8	4535.4	4540.0	4553.8	4544.6
30°	3694.5	4163.2	4314.8	4333.2	4392.9	4402.2	4383.8	4392.9	4415.9	4425.2	4434.3
32.5°	3450.9	3896.7	4181.6	4222.9	4278.1	4250.5	4245.9	4259.7	4296.4	4296.4	4305.7
35°	3120.1	3689.9	4057.5	4094.2	4135.6	4103.5	4121.8	4126.4	4149.4	4163.2	4158.6
37.5°	2757.1	3510.7	3928.9	3956.5	3988.6	3947.2	3974.8	3988.6	4007.0	3997.7	3997.7
40°	2435.4	3230.3	3777.2	3795.6	3823.1	3791.0	3818.6	3827.7	3837.0	3827.7	3823.1
42.5°	2196.5	2922.5	3616.4	3639.4	3621.0	3643.9	3653.1	3671.5	3657.8	3639.4	3639.4
45°	2012.6	2839.8	3441.8	3469.3	3441.8	3478.5	3492.3	3492.3	3450.9	3441.8	3437.2
47.5°	1953.0	2674.4	3267.2	3267.2	3253.3	3299.3	3322.3	3290.1	3248.8	3235.0	3235.0
50°	1948.4	2490.6	3028.2	3009.8	3074.1	3129.3	3106.3	3074.1	3042.0	2991.5	2991.5
52.5°	1769.1	2265.4	2720.3	2789.3	2890.4	2922.5	2885.7	2853.6	2798.4	2775.5	2757.1
55°	1640.4	2031.1	2440.0	2577.9	2683.5	2724.9	2656.0	2623.8	2541.1	2527.3	2518.2
57.5°	1612.9	1691.0	2182.7	2357.3	2485.9	2481.4	2440.0	2380.3	2311.3	2297.6	2293.0
60°	1479.7	1222.3	1907.0	2113.7	2247.1	2233.2	2196.5	2141.3	2077.0	2067.8	2058.6
62.5°	1341.8	886.9	1594.5	1828.9	2017.2	2012.6	1980.5	1897.8	1851.9	1828.9	1810.5
65°	1139.6	744.4	1135.0	1521.0	1792.1	1801.3	1732.4	1672.6	1622.0	1594.5	1589.9
67.5°	868.5	606.5	767.4	1268.2	1576.2	1566.9	1479.7	1452.1	1387.7	1373.9	1346.3
70°	643.3	404.3	533.0	1029.3	1364.7	1341.8	1272.8	1240.7	1181.0	1148.7	1130.4
72.5°	533.0	326.2	390.6	799.5	1148.7	1121.2	1061.5	1024.7	974.1	946.6	928.2
75°	431.9	344.6	298.7	592.8	932.8	914.4	859.3	822.5	781.2	744.4	749.0
77.5°	317.1	321.7	239.0	436.6	739.8	712.3	680.0	634.2	615.8	579.0	579.0
80°	239.0	252.7	179.2	298.7	533.0	533.0	505.4	473.3	441.2	422.7	422.7
82.5°	160.8	160.8	133.2	188.4	363.1	349.2	330.8	321.7	303.3	294.1	294.1
85°	73.5	91.9	82.7	114.9	197.6	206.7	206.7	197.6	193.0	183.8	188.4
87.5°	23.0	41.4	50.5	64.4	101.1	105.7	110.2	110.2	110.2	114.9	114.9
90°	5.6	10.0	14.6	15.7	24.6	36.6	42.5	37.8	28.3	21.3	21.3
92.5°	22.4	60.4	98.5	108.0	151.8	210.3	239.5	209.9	150.7	106.4	102.1
95°	53.8	123.4	193.1	210.4	373.7	591.3	700.1	624.7	474.0	361.0	348.1
97.5°	92.9	154.3	215.8	231.2	503.4	866.2	1047.7	1000.1	904.8	833.4	809.0
100°	123.1	178.9	234.5	248.5	550.5	953.2	1154.6	1158.1	1165.0	1170.3	1141.2
102.5°	148.9	200.9	252.8	265.8	572.2	980.7	1184.9	1245.5	1366.9	1457.9	1433.1
105°	192.5	236.5	280.5	291.6	588.2	983.7	1181.5	1317.6	1589.6	1793.8	1780.4
107.5°	237.3	278.3	319.4	329.7	591.3	940.0	1114.3	1304.2	1683.8	1968.5	1971.7
110°	267.6	304.6	341.7	350.9	586.7	901.2	1058.4	1270.6	1694.9	2013.2	2027.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	297.2	332.5	367.8	376.6	586.9	867.2	1007.4	1224.6	1658.9	1984.7	2006.0
115°	342.0	374.6	407.1	415.3	592.3	828.4	946.4	1155.6	1574.0	1887.8	1917.5
117.5°	386.1	415.7	445.3	452.8	603.3	804.1	904.4	1093.3	1470.8	1754.0	1786.9
120°	411.9	439.8	467.6	474.6	612.3	795.9	887.7	1060.2	1405.2	1664.0	1695.9
122.5°	437.1	465.3	493.3	500.4	625.2	791.6	874.7	1030.1	1340.8	1573.8	1605.3
125°	475.8	501.4	527.0	533.4	642.6	788.0	860.8	992.8	1256.6	1454.6	1483.6
127.5°	507.1	533.0	558.8	565.3	659.9	786.0	849.0	962.4	1188.9	1358.9	1383.4
130°	523.9	551.8	579.6	586.5	672.5	787.2	844.6	945.4	1147.2	1298.5	1321.1
132.5°	541.2	569.1	597.0	603.9	682.9	788.0	840.6	931.0	1111.5	1246.9	1267.2
135°	567.0	592.3	617.7	624.0	694.0	787.3	833.9	909.6	1060.8	1174.3	1191.7
137.5°	593.2	618.4	643.6	649.8	710.8	792.2	832.8	896.7	1024.6	1120.5	1134.8
140°	615.1	638.2	661.3	667.1	721.1	792.9	828.9	884.1	994.6	1077.4	1090.8
142.5°	631.9	653.3	674.7	680.0	729.7	795.8	828.9	877.4	974.4	1047.2	1058.7
145°	657.6	676.2	694.9	699.6	740.9	795.8	823.3	863.0	942.4	1001.8	1010.5
147.5°	683.4	701.5	719.7	724.2	757.3	801.3	823.3	854.6	917.0	963.8	971.1
150°	700.1	716.5	733.0	737.1	765.9	804.1	823.3	849.7	902.4	941.9	947.8
152.5°	717.5	729.9	742.4	745.5	771.5	806.0	823.3	845.9	890.9	924.6	929.1
155°	743.2	752.5	761.7	764.0	783.8	810.1	823.3	841.3	877.0	903.9	906.8
157.5°	762.3	771.3	780.2	782.4	796.1	814.3	823.3	837.3	865.1	886.0	888.1
160°	775.2	782.1	789.1	790.8	801.7	816.1	823.3	835.3	859.1	877.0	878.2
162.5°	788.0	793.3	798.5	799.8	807.7	818.1	823.3	833.4	853.5	868.6	869.7
165°	802.1	806.8	811.5	812.7	816.2	821.0	823.3	830.6	845.0	855.7	856.9
167.5°	814.9	817.1	819.4	819.9	822.9	826.9	828.9	833.6	843.1	850.1	850.7
170°	823.3	825.5	827.8	828.3	828.5	828.8	828.9	833.6	843.1	850.1	850.1
172.5°	827.8	828.2	828.8	828.9	828.9	828.9	828.9	832.6	840.1	845.7	845.2
175°	833.9	833.9	833.9	833.9	832.2	829.9	828.9	831.2	836.0	839.5	839.5
177.5°	833.9	833.9	833.9	833.9	832.7	830.9	830.0	831.9	835.6	838.5	837.9
180°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4981.1	4967.3	4981.1	4972.0	4976.6	4962.7	4921.4	4907.6	4921.4	4935.2	4935.2
5°	5040.8	5031.7	5040.8	5040.8	5036.3	5027.1	4981.1	4972.0	4981.1	4985.7	4976.6
7.5°	5059.2	5045.5	5059.2	5050.1	5050.1	5040.8	4994.9	4985.7	4990.3	5004.1	4990.3
10°	5059.2	5045.5	5059.2	5054.7	5050.1	5040.8	4994.9	4976.6	4976.6	4990.3	4976.6
12.5°	5036.3	5027.1	5036.3	5027.1	5027.1	5017.9	4972.0	4953.6	4958.1	4962.7	4944.4
15°	4999.5	4985.7	4999.5	4990.3	4994.9	4981.1	4930.6	4912.2	4912.2	4921.4	4889.2
17.5°	4944.4	4926.0	4944.4	4939.7	4935.2	4926.0	4880.0	4861.6	4857.1	4861.6	4838.7
20°	4880.0	4866.2	4880.0	4875.5	4875.5	4857.1	4811.1	4788.1	4788.1	4788.1	4765.1
22.5°	4779.0	4765.1	4779.0	4788.1	4788.1	4783.5	4742.1	4710.0	4700.9	4700.9	4673.3
25°	4664.0	4650.3	4664.0	4664.0	4659.5	4664.0	4650.3	4631.9	4618.1	4604.4	4576.8
27.5°	4553.8	4544.6	4553.8	4544.6	4553.8	4540.0	4535.4	4530.8	4512.4	4498.7	4461.9
30°	4443.5	4434.3	4443.5	4434.3	4425.2	4415.9	4392.9	4383.8	4402.2	4392.9	4333.2
32.5°	4305.7	4296.4	4305.7	4305.7	4296.4	4296.4	4259.7	4245.9	4250.5	4278.1	4222.9
35°	4163.2	4149.4	4163.2	4158.6	4163.2	4149.4	4126.4	4121.8	4103.5	4135.6	4094.2
37.5°	3997.7	3984.0	3997.7	3997.7	3997.7	4007.0	3988.6	3974.8	3947.2	3988.6	3956.5
40°	3827.7	3809.4	3827.7	3823.1	3827.7	3837.0	3827.7	3818.6	3791.0	3823.1	3795.6
42.5°	3634.8	3630.1	3634.8	3639.4	3639.4	3657.8	3671.5	3653.1	3643.9	3621.0	3639.4
45°	3427.9	3418.8	3427.9	3437.2	3441.8	3450.9	3492.3	3492.3	3478.5	3441.8	3469.3
47.5°	3207.4	3184.4	3207.4	3235.0	3235.0	3248.8	3290.1	3322.3	3299.3	3253.3	3267.2
50°	2973.1	2977.6	2973.1	2991.5	2991.5	3042.0	3074.1	3106.3	3129.3	3074.1	3009.8
52.5°	2743.3	2738.7	2743.3	2757.1	2775.5	2798.4	2853.6	2885.7	2922.5	2890.4	2789.3
55°	2513.5	2522.8	2513.5	2518.2	2527.3	2541.1	2623.8	2656.0	2724.9	2683.5	2577.9
57.5°	2283.8	2270.0	2283.8	2293.0	2297.6	2311.3	2380.3	2440.0	2481.4	2485.9	2357.3
60°	2017.2	1998.9	2017.2	2058.6	2067.8	2077.0	2141.3	2196.5	2233.2	2247.1	2113.7
62.5°	1782.9	1750.8	1782.9	1810.5	1828.9	1851.9	1897.8	1980.5	2012.6	2017.2	1828.9
65°	1534.8	1521.0	1534.8	1589.9	1594.5	1622.0	1672.6	1732.4	1801.3	1792.1	1521.0
67.5°	1309.6	1309.6	1309.6	1346.3	1373.9	1387.7	1452.1	1479.7	1566.9	1576.2	1268.2
70°	1102.8	1098.2	1102.8	1130.4	1148.7	1181.0	1240.7	1272.8	1341.8	1364.7	1029.3
72.5°	905.3	900.6	905.3	928.2	946.6	974.1	1024.7	1061.5	1121.2	1148.7	799.5
75°	730.6	721.4	730.6	749.0	744.4	781.2	822.5	859.3	914.4	932.8	592.8
77.5°	560.6	560.6	560.6	579.0	579.0	615.8	634.2	680.0	712.3	739.8	436.6
80°	418.2	413.6	418.2	422.7	422.7	441.2	473.3	505.4	533.0	533.0	298.7
82.5°	294.1	284.9	294.1	294.1	294.1	303.3	321.7	330.8	349.2	363.1	188.4
85°	183.8	183.8	183.8	188.4	183.8	193.0	197.6	206.7	206.7	197.6	114.9
87.5°	119.5	114.9	119.5	114.9	114.9	110.2	110.2	110.2	105.7	101.1	64.4
90°	21.3	21.3	21.3	21.3	21.3	28.3	37.8	42.5	36.6	24.6	15.7
92.5°	85.2	68.2	85.2	102.1	106.4	150.7	209.9	239.5	210.3	151.8	108.0
95°	296.9	245.7	296.9	348.1	361.0	474.0	624.7	700.1	591.3	373.7	210.4
97.5°	711.5	614.0	711.5	809.0	833.4	904.8	1000.1	1047.7	866.2	503.4	231.2
100°	1025.1	909.0	1025.1	1141.2	1170.3	1165.0	1158.1	1154.6	953.2	550.5	248.5
102.5°	1333.6	1234.1	1333.6	1433.1	1457.9	1366.9	1245.5	1184.9	980.7	572.2	265.8
105°	1727.0	1673.5	1727.0	1780.4	1793.8	1589.6	1317.6	1181.5	983.7	588.2	291.6
107.5°	1984.6	1997.5	1984.6	1971.7	1968.5	1683.8	1304.2	1114.3	940.0	591.3	329.7
110°	2082.8	2138.5	2082.8	2027.1	2013.2	1694.9	1270.6	1058.4	901.2	586.7	350.9



TEST NUMBER: P934555

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2091.6	2177.2	2091.6	2006.0	1984.7	1658.9	1224.6	1007.4	867.2	586.9	376.6
115°	2036.2	2154.8	2036.2	1917.5	1887.8	1574.0	1155.6	946.4	828.4	592.3	415.3
117.5°	1918.5	2050.1	1918.5	1786.9	1754.0	1470.8	1093.3	904.4	804.1	603.3	452.8
120°	1823.8	1951.6	1823.8	1695.9	1664.0	1405.2	1060.2	887.7	795.9	612.3	474.6
122.5°	1731.5	1857.6	1731.5	1605.3	1573.8	1340.8	1030.1	874.7	791.6	625.2	500.4
125°	1599.8	1716.0	1599.8	1483.6	1454.6	1256.6	992.8	860.8	788.0	642.6	533.4
127.5°	1481.4	1579.4	1481.4	1383.4	1358.9	1188.9	962.4	849.0	786.0	659.9	565.3
130°	1411.7	1502.2	1411.7	1321.1	1298.5	1147.2	945.4	844.6	787.2	672.5	586.5
132.5°	1348.3	1429.4	1348.3	1267.2	1246.9	1111.5	931.0	840.6	788.0	682.9	603.9
135°	1261.6	1331.5	1261.6	1191.7	1174.3	1060.8	909.6	833.9	787.3	694.0	624.0
137.5°	1192.0	1249.2	1192.0	1134.8	1120.5	1024.6	896.7	832.8	792.2	710.8	649.8
140°	1144.2	1197.7	1144.2	1090.8	1077.4	994.6	884.1	828.9	792.9	721.1	667.1
142.5°	1104.7	1150.7	1104.7	1058.7	1047.2	974.4	877.4	828.9	795.8	729.7	680.0
145°	1045.4	1080.2	1045.4	1010.5	1001.8	942.4	863.0	823.3	795.8	740.9	699.6
147.5°	999.8	1028.7	999.8	971.1	963.8	917.0	854.6	823.3	801.3	757.3	724.2
150°	971.1	994.6	971.1	947.8	941.9	902.4	849.7	823.3	804.1	765.9	737.1
152.5°	946.7	964.4	946.7	929.1	924.6	890.9	845.9	823.3	806.0	771.5	745.5
155°	918.6	930.2	918.6	906.8	903.9	877.0	841.3	823.3	810.1	783.8	764.0
157.5°	896.2	904.4	896.2	888.1	886.0	865.1	837.3	823.3	814.3	796.1	782.4
160°	883.0	887.7	883.0	878.2	877.0	859.1	835.3	823.3	816.1	801.7	790.8
162.5°	874.2	878.7	874.2	869.7	868.6	853.5	833.4	823.3	818.1	807.7	799.8
165°	861.7	866.4	861.7	856.9	855.7	845.0	830.6	823.3	821.0	816.2	812.7
167.5°	852.7	854.7	852.7	850.7	850.1	843.1	833.6	828.9	826.9	822.9	819.9
170°	850.1	850.1	850.1	850.1	850.1	843.1	833.6	828.9	828.8	828.5	828.3
172.5°	843.5	841.8	843.5	845.2	845.7	840.1	832.6	828.9	828.9	828.9	828.9
175°	839.5	839.5	839.5	839.5	839.5	836.0	831.2	828.9	829.9	832.2	833.9
177.5°	835.9	833.9	835.9	837.9	838.5	835.6	831.9	830.0	830.9	832.7	833.9
180°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9



TEST NUMBER: P934555

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4926.0	4898.5	4898.5	4852.5	4834.1	4820.3	4797.4	4728.4	4710.0	4691.6	4719.2
5°	4967.3	4916.8	4880.0	4797.4	4728.4	4700.9	4613.5	4448.1	4337.8	4255.1	4209.2
7.5°	4976.6	4912.2	4843.2	4714.6	4549.2	4475.7	4209.2	3905.9	3823.1	3749.6	3703.6
10°	4967.3	4893.8	4797.4	4604.4	4213.7	4085.1	3818.6	3621.0	3570.4	3556.6	3570.4
12.5°	4935.2	4866.2	4733.0	4411.3	3864.5	3777.2	3621.0	3506.1	3496.9	3519.9	3643.9
15°	4880.0	4815.7	4659.5	4154.0	3671.5	3607.2	3496.9	3455.5	3506.1	3666.9	4039.1
17.5°	4824.9	4751.4	4558.4	3901.2	3524.5	3478.5	3400.4	3483.2	3768.0	3984.0	4108.1
20°	4751.4	4664.0	4443.5	3717.5	3418.8	3377.4	3340.7	3712.9	3928.9	4007.0	4075.8
22.5°	4664.0	4572.1	4287.3	3588.8	3308.5	3276.3	3299.3	3841.5	3928.9	3984.0	4043.7
25°	4549.2	4471.0	4103.5	3487.7	3221.2	3184.4	3271.7	3827.7	3878.3	3892.1	4011.6
27.5°	4443.5	4342.4	3910.5	3395.8	3115.5	3101.7	3294.7	3768.0	3804.8	3818.6	3947.2
30°	4314.8	4163.2	3694.5	3299.3	3005.2	3000.6	3299.3	3694.5	3685.3	3722.0	3850.7
32.5°	4181.6	3896.7	3450.9	3179.8	2899.5	2895.0	3267.2	3584.2	3575.0	3625.5	3722.0
35°	4057.5	3689.9	3120.1	3042.0	2766.3	2770.9	3189.1	3455.5	3460.2	3506.1	3565.8
37.5°	3928.9	3510.7	2757.1	2890.4	2637.6	2637.6	3083.3	3336.1	3326.9	3340.7	3423.4
40°	3777.2	3230.3	2435.4	2692.8	2518.2	2504.3	2954.7	3207.4	3175.2	3170.7	3285.6
42.5°	3616.4	2922.5	2196.5	2430.8	2380.3	2361.9	2798.4	3051.2	2991.5	3005.2	3152.2
45°	3441.8	2839.8	2012.6	2054.0	2237.8	2224.1	2628.4	2872.0	2830.6	2867.4	3019.0
47.5°	3267.2	2674.4	1953.0	1704.8	2086.2	2081.6	2440.0	2697.4	2674.4	2711.1	2872.0
50°	3028.2	2490.6	1948.4	1461.3	1916.1	1934.5	2214.8	2527.3	2527.3	2559.5	2729.5
52.5°	2720.3	2265.4	1769.1	1323.4	1718.5	1773.8	2017.2	2380.3	2389.4	2421.7	2573.3
55°	2440.0	2031.1	1640.4	1217.7	1484.2	1603.7	1824.3	2228.6	2247.1	2279.2	2417.1
57.5°	2182.7	1691.0	1612.9	1093.6	1268.2	1383.2	1654.3	2081.6	2090.8	2118.3	2251.6
60°	1907.0	1222.3	1479.7	960.4	1079.9	1167.2	1498.0	1907.0	1939.1	1957.5	2072.4
62.5°	1594.5	886.9	1341.8	868.5	988.0	1006.4	1369.3	1741.5	1782.9	1796.7	1865.6
65°	1135.0	744.4	1139.6	790.4	891.5	896.0	1231.5	1571.5	1608.3	1631.3	1681.8
67.5°	767.4	606.5	868.5	716.8	817.9	822.5	1098.2	1373.9	1424.5	1442.9	1475.1
70°	533.0	404.3	643.3	638.7	735.3	744.4	955.8	1194.7	1240.7	1254.5	1272.8
72.5°	390.6	326.2	533.0	574.4	647.9	657.1	808.8	992.5	1038.5	1052.2	1061.5
75°	298.7	344.6	431.9	500.8	551.4	556.0	661.7	808.8	840.9	850.1	854.7
77.5°	239.0	321.7	317.1	404.3	450.3	441.2	519.3	624.9	652.5	652.5	652.5
80°	179.2	252.7	239.0	289.5	330.8	321.7	372.2	445.7	454.9	464.1	459.6
82.5°	133.2	160.8	160.8	183.8	220.6	211.4	248.1	289.5	289.5	289.5	298.7
85°	82.7	91.9	73.5	96.5	124.1	119.5	137.9	156.2	160.8	160.8	151.6
87.5°	50.5	41.4	23.0	36.7	55.1	55.1	64.4	68.9	64.4	64.4	64.4
90°	14.6	10.0	5.6	10.0	14.6	15.7	24.6	36.6	42.5	37.8	28.3
92.5°	98.5	60.4	22.4	60.4	98.5	108.0	151.8	210.3	239.5	209.9	150.7
95°	193.1	123.4	53.8	123.4	193.1	210.4	373.7	591.3	700.1	624.7	474.0
97.5°	215.8	154.3	92.9	154.3	215.8	231.2	503.4	866.2	1047.7	1000.1	904.8
100°	234.5	178.9	123.1	178.9	234.5	248.5	550.5	953.2	1154.6	1158.1	1165.0
102.5°	252.8	200.9	148.9	200.9	252.8	265.8	572.2	980.7	1184.9	1245.5	1366.9
105°	280.5	236.5	192.5	236.5	280.5	291.6	588.2	983.7	1181.5	1317.6	1589.6
107.5°	319.4	278.3	237.3	278.3	319.4	329.7	591.3	940.0	1114.3	1304.2	1683.8
110°	341.7	304.6	267.6	304.6	341.7	350.9	586.7	901.2	1058.4	1270.6	1694.9



TEST NUMBER: P934555

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	367.8	332.5	297.2	332.5	367.8	376.6	586.9	867.2	1007.4	1224.6	1658.9
115°	407.1	374.6	342.0	374.6	407.1	415.3	592.3	828.4	946.4	1155.6	1574.0
117.5°	445.3	415.7	386.1	415.7	445.3	452.8	603.3	804.1	904.4	1093.3	1470.8
120°	467.6	439.8	411.9	439.8	467.6	474.6	612.3	795.9	887.7	1060.2	1405.2
122.5°	493.3	465.3	437.1	465.3	493.3	500.4	625.2	791.6	874.7	1030.1	1340.8
125°	527.0	501.4	475.8	501.4	527.0	533.4	642.6	788.0	860.8	992.8	1256.6
127.5°	558.8	533.0	507.1	533.0	558.8	565.3	659.9	786.0	849.0	962.4	1188.9
130°	579.6	551.8	523.9	551.8	579.6	586.5	672.5	787.2	844.6	945.4	1147.2
132.5°	597.0	569.1	541.2	569.1	597.0	603.9	682.9	788.0	840.6	931.0	1111.5
135°	617.7	592.3	567.0	592.3	617.7	624.0	694.0	787.3	833.9	909.6	1060.8
137.5°	643.6	618.4	593.2	618.4	643.6	649.8	710.8	792.2	832.8	896.7	1024.6
140°	661.3	638.2	615.1	638.2	661.3	667.1	721.1	792.9	828.9	884.1	994.6
142.5°	674.7	653.3	631.9	653.3	674.7	680.0	729.7	795.8	828.9	877.4	974.4
145°	694.9	676.2	657.6	676.2	694.9	699.6	740.9	795.8	823.3	863.0	942.4
147.5°	719.7	701.5	683.4	701.5	719.7	724.2	757.3	801.3	823.3	854.6	917.0
150°	733.0	716.5	700.1	716.5	733.0	737.1	765.9	804.1	823.3	849.7	902.4
152.5°	742.4	729.9	717.5	729.9	742.4	745.5	771.5	806.0	823.3	845.9	890.9
155°	761.7	752.5	743.2	752.5	761.7	764.0	783.8	810.1	823.3	841.3	877.0
157.5°	780.2	771.3	762.3	771.3	780.2	782.4	796.1	814.3	823.3	837.3	865.1
160°	789.1	782.1	775.2	782.1	789.1	790.8	801.7	816.1	823.3	835.3	859.1
162.5°	798.5	793.3	788.0	793.3	798.5	799.8	807.7	818.1	823.3	833.4	853.5
165°	811.5	806.8	802.1	806.8	811.5	812.7	816.2	821.0	823.3	830.6	845.0
167.5°	819.4	817.1	814.9	817.1	819.4	819.9	822.9	826.9	828.9	833.6	843.1
170°	827.8	825.5	823.3	825.5	827.8	828.3	828.5	828.8	828.9	833.6	843.1
172.5°	828.8	828.2	827.8	828.2	828.8	828.9	828.9	828.9	828.9	832.6	840.1
175°	833.9	833.9	833.9	833.9	833.9	833.9	832.2	829.9	828.9	831.2	836.0
177.5°	833.9	833.9	833.9	833.9	833.9	833.9	832.7	830.9	830.0	831.9	835.6
180°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9



TEST NUMBER: P934555
 CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4687.0	4673.3	4691.6	4641.1	4691.6	4673.3	4687.0	4719.2	4691.6	4710.0	4728.4
5°	4112.7	4089.7	4016.1	3956.5	4016.1	4089.7	4112.7	4209.2	4255.1	4337.8	4448.1
7.5°	3676.1	3657.8	3639.4	3602.6	3639.4	3657.8	3676.1	3703.6	3749.6	3823.1	3905.9
10°	3579.6	3584.2	3611.8	3607.2	3611.8	3584.2	3579.6	3570.4	3556.6	3570.4	3621.0
12.5°	3827.7	3869.1	4020.7	4011.6	4020.7	3869.1	3827.7	3643.9	3519.9	3496.9	3506.1
15°	4112.7	4126.4	4158.6	4163.2	4158.6	4126.4	4112.7	4039.1	3666.9	3506.1	3455.5
17.5°	4140.2	4144.8	4167.8	4167.8	4167.8	4144.8	4140.2	4108.1	3984.0	3768.0	3483.2
20°	4117.2	4126.4	4172.4	4181.6	4172.4	4126.4	4117.2	4075.8	4007.0	3928.9	3712.9
22.5°	4108.1	4126.4	4163.2	4158.6	4163.2	4126.4	4108.1	4043.7	3984.0	3928.9	3841.5
25°	4062.1	4062.1	4066.7	4071.3	4066.7	4062.1	4062.1	4011.6	3892.1	3878.3	3827.7
27.5°	3965.6	3974.8	4002.4	3997.7	4002.4	3974.8	3965.6	3947.2	3818.6	3804.8	3768.0
30°	3878.3	3869.1	3846.1	3827.7	3846.1	3869.1	3878.3	3850.7	3722.0	3685.3	3694.5
32.5°	3731.3	3708.3	3685.3	3671.5	3685.3	3708.3	3731.3	3722.0	3625.5	3575.0	3584.2
35°	3556.6	3561.3	3556.6	3542.9	3556.6	3561.3	3556.6	3565.8	3506.1	3460.2	3455.5
37.5°	3432.6	3441.8	3437.2	3418.8	3437.2	3441.8	3432.6	3423.4	3340.7	3326.9	3336.1
40°	3303.9	3308.5	3303.9	3290.1	3303.9	3308.5	3303.9	3285.6	3170.7	3175.2	3207.4
42.5°	3179.8	3175.2	3161.5	3152.2	3161.5	3175.2	3179.8	3152.2	3005.2	2991.5	3051.2
45°	3037.4	3042.0	3014.4	3000.6	3014.4	3042.0	3037.4	3019.0	2867.4	2830.6	2872.0
47.5°	2895.0	2895.0	2872.0	2858.1	2872.0	2895.0	2895.0	2872.0	2711.1	2674.4	2697.4
50°	2743.3	2738.7	2706.5	2701.9	2706.5	2738.7	2743.3	2729.5	2559.5	2527.3	2527.3
52.5°	2568.7	2568.7	2573.3	2582.4	2573.3	2568.7	2568.7	2573.3	2421.7	2389.4	2380.3
55°	2417.1	2421.7	2453.8	2463.0	2453.8	2421.7	2417.1	2417.1	2279.2	2247.1	2228.6
57.5°	2260.8	2260.8	2283.8	2283.8	2283.8	2260.8	2260.8	2251.6	2118.3	2090.8	2081.6
60°	2081.6	2090.8	2109.2	2104.6	2109.2	2090.8	2081.6	2072.4	1957.5	1939.1	1907.0
62.5°	1893.2	1902.4	1907.0	1897.8	1907.0	1902.4	1893.2	1865.6	1796.7	1782.9	1741.5
65°	1695.6	1704.8	1709.4	1700.2	1709.4	1704.8	1695.6	1681.8	1631.3	1608.3	1571.5
67.5°	1493.4	1488.8	1484.2	1502.6	1484.2	1488.8	1493.4	1475.1	1442.9	1424.5	1373.9
70°	1286.6	1286.6	1282.1	1291.2	1282.1	1286.6	1286.6	1272.8	1254.5	1240.7	1194.7
72.5°	1066.1	1061.5	1079.9	1066.1	1079.9	1061.5	1066.1	1061.5	1052.2	1038.5	992.5
75°	850.1	859.3	850.1	863.9	850.1	859.3	850.1	854.7	850.1	840.9	808.8
77.5°	647.9	657.1	647.9	647.9	647.9	657.1	647.9	652.5	652.5	652.5	624.9
80°	459.6	454.9	454.9	450.3	454.9	454.9	459.6	459.6	464.1	454.9	445.7
82.5°	294.1	289.5	289.5	298.7	289.5	289.5	294.1	298.7	289.5	289.5	289.5
85°	160.8	165.5	156.2	156.2	156.2	165.5	160.8	151.6	160.8	160.8	156.2
87.5°	59.7	55.1	55.1	55.1	55.1	55.1	59.7	64.4	64.4	64.4	68.9
90°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	28.3	37.8	42.5	36.6
92.5°	106.4	102.1	85.2	68.2	85.2	102.1	106.4	150.7	209.9	239.5	210.3
95°	361.0	348.1	296.9	245.7	296.9	348.1	361.0	474.0	624.7	700.1	591.3
97.5°	833.4	809.0	711.5	614.0	711.5	809.0	833.4	904.8	1000.1	1047.7	866.2
100°	1170.3	1141.2	1025.1	909.0	1025.1	1141.2	1170.3	1165.0	1158.1	1154.6	953.2
102.5°	1457.9	1433.1	1333.6	1234.1	1333.6	1433.1	1457.9	1366.9	1245.5	1184.9	980.7
105°	1793.8	1780.4	1727.0	1673.5	1727.0	1780.4	1793.8	1589.6	1317.6	1181.5	983.7
107.5°	1968.5	1971.7	1984.6	1997.5	1984.6	1971.7	1968.5	1683.8	1304.2	1114.3	940.0
110°	2013.2	2027.1	2082.8	2138.5	2082.8	2027.1	2013.2	1694.9	1270.6	1058.4	901.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1984.7	2006.0	2091.6	2177.2	2091.6	2006.0	1984.7	1658.9	1224.6	1007.4	867.2
115°	1887.8	1917.5	2036.2	2154.8	2036.2	1917.5	1887.8	1574.0	1155.6	946.4	828.4
117.5°	1754.0	1786.9	1918.5	2050.1	1918.5	1786.9	1754.0	1470.8	1093.3	904.4	804.1
120°	1664.0	1695.9	1823.8	1951.6	1823.8	1695.9	1664.0	1405.2	1060.2	887.7	795.9
122.5°	1573.8	1605.3	1731.5	1857.6	1731.5	1605.3	1573.8	1340.8	1030.1	874.7	791.6
125°	1454.6	1483.6	1599.8	1716.0	1599.8	1483.6	1454.6	1256.6	992.8	860.8	788.0
127.5°	1358.9	1383.4	1481.4	1579.4	1481.4	1383.4	1358.9	1188.9	962.4	849.0	786.0
130°	1298.5	1321.1	1411.7	1502.2	1411.7	1321.1	1298.5	1147.2	945.4	844.6	787.2
132.5°	1246.9	1267.2	1348.3	1429.4	1348.3	1267.2	1246.9	1111.5	931.0	840.6	788.0
135°	1174.3	1191.7	1261.6	1331.5	1261.6	1191.7	1174.3	1060.8	909.6	833.9	787.3
137.5°	1120.5	1134.8	1192.0	1249.2	1192.0	1134.8	1120.5	1024.6	896.7	832.8	792.2
140°	1077.4	1090.8	1144.2	1197.7	1144.2	1090.8	1077.4	994.6	884.1	828.9	792.9
142.5°	1047.2	1058.7	1104.7	1150.7	1104.7	1058.7	1047.2	974.4	877.4	828.9	795.8
145°	1001.8	1010.5	1045.4	1080.2	1045.4	1010.5	1001.8	942.4	863.0	823.3	795.8
147.5°	963.8	971.1	999.8	1028.7	999.8	971.1	963.8	917.0	854.6	823.3	801.3
150°	941.9	947.8	971.1	994.6	971.1	947.8	941.9	902.4	849.7	823.3	804.1
152.5°	924.6	929.1	946.7	964.4	946.7	929.1	924.6	890.9	845.9	823.3	806.0
155°	903.9	906.8	918.6	930.2	918.6	906.8	903.9	877.0	841.3	823.3	810.1
157.5°	886.0	888.1	896.2	904.4	896.2	888.1	886.0	865.1	837.3	823.3	814.3
160°	877.0	878.2	883.0	887.7	883.0	878.2	877.0	859.1	835.3	823.3	816.1
162.5°	868.6	869.7	874.2	878.7	874.2	869.7	868.6	853.5	833.4	823.3	818.1
165°	855.7	856.9	861.7	866.4	861.7	856.9	855.7	845.0	830.6	823.3	821.0
167.5°	850.1	850.7	852.7	854.7	852.7	850.7	850.1	843.1	833.6	828.9	826.9
170°	850.1	850.1	850.1	850.1	850.1	850.1	850.1	843.1	833.6	828.9	828.8
172.5°	845.7	845.2	843.5	841.8	843.5	845.2	845.7	840.1	832.6	828.9	828.9
175°	839.5	839.5	839.5	839.5	839.5	839.5	839.5	836.0	831.2	828.9	829.9
177.5°	838.5	837.9	835.9	833.9	835.9	837.9	838.5	835.6	831.9	830.0	830.9
180°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4797.4	4820.3	4834.1	4852.5	4898.5
5°	4613.5	4700.9	4728.4	4797.4	4880.0
7.5°	4209.2	4475.7	4549.2	4714.6	4843.2
10°	3818.6	4085.1	4213.7	4604.4	4797.4
12.5°	3621.0	3777.2	3864.5	4411.3	4733.0
15°	3496.9	3607.2	3671.5	4154.0	4659.5
17.5°	3400.4	3478.5	3524.5	3901.2	4558.4
20°	3340.7	3377.4	3418.8	3717.5	4443.5
22.5°	3299.3	3276.3	3308.5	3588.8	4287.3
25°	3271.7	3184.4	3221.2	3487.7	4103.5
27.5°	3294.7	3101.7	3115.5	3395.8	3910.5
30°	3299.3	3000.6	3005.2	3299.3	3694.5
32.5°	3267.2	2895.0	2899.5	3179.8	3450.9
35°	3189.1	2770.9	2766.3	3042.0	3120.1
37.5°	3083.3	2637.6	2637.6	2890.4	2757.1
40°	2954.7	2504.3	2518.2	2692.8	2435.4
42.5°	2798.4	2361.9	2380.3	2430.8	2196.5
45°	2628.4	2224.1	2237.8	2054.0	2012.6
47.5°	2440.0	2081.6	2086.2	1704.8	1953.0
50°	2214.8	1934.5	1916.1	1461.3	1948.4
52.5°	2017.2	1773.8	1718.5	1323.4	1769.1
55°	1824.3	1603.7	1484.2	1217.7	1640.4
57.5°	1654.3	1383.2	1268.2	1093.6	1612.9
60°	1498.0	1167.2	1079.9	960.4	1479.7
62.5°	1369.3	1006.4	988.0	868.5	1341.8
65°	1231.5	896.0	891.5	790.4	1139.6
67.5°	1098.2	822.5	817.9	716.8	868.5
70°	955.8	744.4	735.3	638.7	643.3
72.5°	808.8	657.1	647.9	574.4	533.0
75°	661.7	556.0	551.4	500.8	431.9
77.5°	519.3	441.2	450.3	404.3	317.1
80°	372.2	321.7	330.8	289.5	239.0
82.5°	248.1	211.4	220.6	183.8	160.8
85°	137.9	119.5	124.1	96.5	73.5
87.5°	64.4	55.1	55.1	36.7	23.0
90°	24.6	15.7	14.6	10.0	5.6
92.5°	151.8	108.0	98.5	60.4	22.4
95°	373.7	210.4	193.1	123.4	53.8
97.5°	503.4	231.2	215.8	154.3	92.9
100°	550.5	248.5	234.5	178.9	123.1
102.5°	572.2	265.8	252.8	200.9	148.9
105°	588.2	291.6	280.5	236.5	192.5
107.5°	591.3	329.7	319.4	278.3	237.3
110°	586.7	350.9	341.7	304.6	267.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	586.9	376.6	367.8	332.5	297.2
115°	592.3	415.3	407.1	374.6	342.0
117.5°	603.3	452.8	445.3	415.7	386.1
120°	612.3	474.6	467.6	439.8	411.9
122.5°	625.2	500.4	493.3	465.3	437.1
125°	642.6	533.4	527.0	501.4	475.8
127.5°	659.9	565.3	558.8	533.0	507.1
130°	672.5	586.5	579.6	551.8	523.9
132.5°	682.9	603.9	597.0	569.1	541.2
135°	694.0	624.0	617.7	592.3	567.0
137.5°	710.8	649.8	643.6	618.4	593.2
140°	721.1	667.1	661.3	638.2	615.1
142.5°	729.7	680.0	674.7	653.3	631.9
145°	740.9	699.6	694.9	676.2	657.6
147.5°	757.3	724.2	719.7	701.5	683.4
150°	765.9	737.1	733.0	716.5	700.1
152.5°	771.5	745.5	742.4	729.9	717.5
155°	783.8	764.0	761.7	752.5	743.2
157.5°	796.1	782.4	780.2	771.3	762.3
160°	801.7	790.8	789.1	782.1	775.2
162.5°	807.7	799.8	798.5	793.3	788.0
165°	816.2	812.7	811.5	806.8	802.1
167.5°	822.9	819.9	819.4	817.1	814.9
170°	828.5	828.3	827.8	825.5	823.3
172.5°	828.9	828.9	828.8	828.2	827.8
175°	832.2	833.9	833.9	833.9	833.9
177.5°	832.7	833.9	833.9	833.9	833.9
180°	833.9	833.9	833.9	833.9	833.9



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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	15.89	16.97	16.66	17.75	18.71	18.74	19.82	19.51	20.61	21.56
	3H	16.39	17.35	17.16	18.15	19.13	20.11	21.08	20.89	21.87	22.86
	4H	16.59	17.50	17.38	18.30	19.30	20.57	21.48	21.37	22.29	23.28
	6H	16.72	17.56	17.53	18.37	19.38	20.87	21.71	21.68	22.53	23.54
	8H	16.72	17.52	17.54	18.36	19.37	20.96	21.76	21.77	22.59	23.60
	12H	16.70	17.46	17.53	18.29	19.33	21.01	21.77	21.83	22.59	23.63
4H	2H	16.96	17.87	17.76	18.67	19.67	19.18	20.09	19.98	20.89	21.89
	3H	18.00	18.76	18.82	19.60	20.61	20.71	21.47	21.52	22.31	23.32
	4H	18.29	18.98	19.11	19.82	20.86	21.25	21.94	22.08	22.78	23.82
	6H	18.43	19.02	19.27	19.88	20.93	21.63	22.23	22.48	23.09	24.14
	8H	18.44	18.99	19.28	19.85	20.91	21.75	22.31	22.60	23.16	24.22
	12H	18.41	18.92	19.28	19.79	20.86	21.82	22.32	22.69	23.20	24.26
8H	4H	18.76	19.32	19.61	20.18	21.24	21.39	21.95	22.24	22.81	23.87
	6H	19.03	19.49	19.91	20.39	21.45	21.84	22.31	22.72	23.20	24.26
	8H	19.08	19.49	19.96	20.38	21.46	22.00	22.41	22.89	23.31	24.38
	12H	19.07	19.43	19.96	20.32	21.45	22.11	22.47	23.00	23.36	24.49
12H	4H	18.78	19.28	19.65	20.16	21.22	21.37	21.87	22.23	22.75	23.81
	6H	19.10	19.51	19.98	20.40	21.48	21.84	22.25	22.73	23.15	24.22
	8H	19.17	19.53	20.06	20.42	21.55	22.02	22.38	22.91	23.26	24.39