

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: NEO-RAY

Report Number: P998271

Luminaire Tested: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998271
REPORT IS A COMBINATION OF REPORTS P984011 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

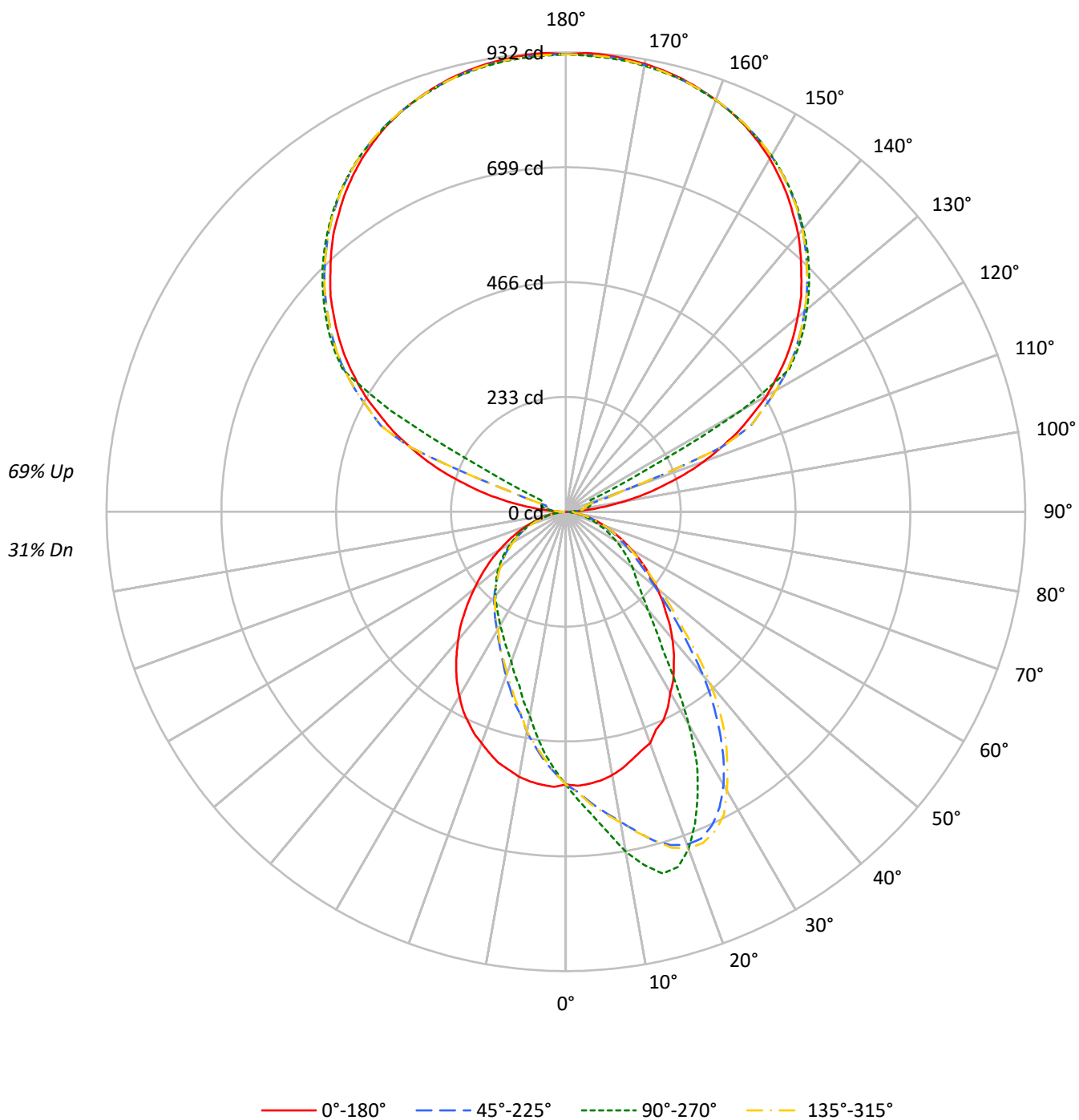
Lumens per Lamp: N/A
Luminaire Lumens: 3944.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
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



TEST NUMBER: P998271

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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	32	31	30	27
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	31	30	28	27	26	25	23
3	78	69	62	57	70	63	57	52	50	46	43	38	36	33	28	26	24	23	22	21	20
4	72	61	54	48	64	56	49	44	45	40	36	34	31	29	25	23	21	20	19	18	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	22	20	19	18	17	16	15
6	61	49	41	36	54	45	38	33	36	31	28	28	25	22	20	18	17	16	15	14	13
7	56	44	37	31	50	40	34	29	33	28	24	25	22	20	19	17	15	14	13	12	12
8	52	40	33	28	47	37	30	26	30	25	22	23	20	17	17	15	13	12	11	10	11
9	48	37	30	25	43	33	27	23	27	23	19	21	18	16	16	14	12	11	10	9	10
10	45	34	27	22	41	31	25	20	25	20	17	20	17	14	15	13	11	10	9	8	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8760	8760	8760	8760
5°	8781	9341	8815	7431
10°	8680	10197	8734	6127
15°	8468	10755	8587	5160
20°	8337	10098	8337	4486
25°	8071	8676	8107	4012
30°	7634	6819	7780	3633
35°	7247	4716	7367	3324
40°	6800	3561	6879	3078
45°	6253	2926	6355	2812
50°	5778	2568	5787	2574
55°	5236	2188	5271	2316
60°	4661	1828	4725	2021
65°	4145	1487	4220	1726
70°	3629	1166	3720	1392
75°	3043	846	3166	1009
80°	2379	536	2547	599
85°	1568	270	1681	200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.3
10°-20°	153.4	3.9
20°-30°	222.7	5.6
30°-40°	234.7	6.0
40°-50°	207.7	5.3
50°-60°	165.9	4.2
60°-70°	112.7	2.9
70°-80°	57.6	1.5
80°-90°	15.3	0.4
90°-100°	30.6	0.8
100°-110°	114.1	2.9
110°-120°	302.6	7.7
120°-130°	501.9	12.7
130°-140°	533.2	13.5
140°-150°	495.5	12.6
150°-160°	398.4	10.1
160°-170°	256.7	6.5
170°-180°	88.4	2.2
0°-30°	428.8	10.9
0°-40°	663.5	16.8
0°-60°	1037.1	26.3
0°-90°	1222.6	31.0
90°-120°	447.4	11.3
90°-150°	1977.9	50.2
90°-180°	2721.0	69.0
0°-180°	3944.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	553	553	553	553	553	
5°	554	618	556	492	554	53
15°	520	760	528	364	520	147
25°	468	633	470	293	468	214
35°	382	345	388	243	382	239
45°	286	208	291	200	286	222
55°	196	146	198	154	196	175
65°	117	90	119	104	117	116
75°	54	44	57	53	54	58
85°	11	12	12	8	11	13
90°	1	18	1	18	1	3
95°	44	29	44	29	44	52
105°	204	51	204	51	204	218
115°	386	55	386	55	386	380
125°	546	574	546	574	546	487
135°	676	698	676	698	676	522
145°	784	796	784	796	784	490
155°	863	864	863	864	863	398
165°	910	907	910	907	910	257
175°	930	925	930	925	930	89
180°	928	928	928	928	928	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	556.4	557.7	559.8	560.2	564.5	567.9	571.7	571.7	573.0	572.6	569.2
5°	553.8	557.7	563.2	567.9	575.5	578.9	584.0	587.9	591.3	593.8	593.4
7.5°	549.6	556.4	564.5	573.4	583.6	589.6	596.8	603.6	608.3	612.5	615.5
10°	542.4	553.8	564.9	576.8	590.0	598.1	606.6	615.5	622.8	630.8	638.5
12.5°	532.6	549.2	562.8	578.5	594.7	603.6	617.2	624.0	638.1	658.5	664.0
15°	520.2	542.8	555.5	575.5	596.8	604.0	622.8	633.8	662.7	675.5	690.8
17.5°	508.7	533.8	550.9	573.8	594.7	608.7	627.0	649.5	673.8	692.1	709.1
20°	499.4	523.6	544.1	569.6	596.0	613.8	633.0	660.2	686.6	705.3	718.5
22.5°	478.1	509.2	533.0	561.5	593.4	618.1	636.4	666.1	694.6	706.1	717.6
25°	467.5	494.3	521.9	554.3	591.7	621.0	636.8	670.0	695.1	699.3	701.9
27.5°	447.9	478.1	510.5	547.5	591.3	615.9	635.9	666.1	686.1	683.2	675.5
30°	423.7	460.7	496.4	536.4	585.3	612.1	630.8	658.5	668.7	653.4	639.8
32.5°	405.8	440.7	480.2	526.6	578.5	604.0	622.3	644.0	646.1	618.5	595.5
35°	381.6	420.3	464.9	513.9	567.0	590.0	607.0	620.2	610.0	571.3	544.1
37.5°	359.9	398.2	445.8	495.6	551.3	573.8	587.4	589.6	564.5	530.4	490.5
40°	336.0	375.6	425.4	477.7	533.8	553.4	561.9	555.5	519.4	479.8	433.5
42.5°	312.2	351.4	405.0	458.6	511.7	528.3	531.7	514.3	470.0	423.7	370.1
45°	286.3	327.1	380.7	434.7	486.2	495.6	496.0	470.9	418.6	370.1	320.3
47.5°	265.0	302.9	356.0	410.1	453.5	459.8	457.3	428.4	371.4	316.9	273.5
50°	241.6	277.8	330.5	383.7	420.7	422.4	416.0	374.8	319.0	269.3	234.8
52.5°	216.5	253.1	301.6	352.6	385.8	383.3	370.9	326.7	274.4	233.1	206.7
55°	196.5	228.9	274.4	324.1	347.5	340.3	326.7	281.6	240.3	205.5	182.5
57.5°	174.4	202.9	247.6	291.0	304.6	297.8	284.2	242.0	203.8	177.4	162.1
60°	153.6	179.5	218.6	254.8	265.4	258.2	242.5	204.6	177.0	154.8	143.4
62.5°	134.4	157.0	189.7	222.9	227.2	219.9	206.3	175.7	151.9	134.4	125.9
65°	116.6	137.8	164.2	189.3	193.1	185.5	171.4	149.3	129.3	118.3	110.2
67.5°	99.1	116.1	139.5	157.8	159.9	152.7	141.2	123.4	111.0	99.1	93.2
70°	83.8	96.6	114.9	129.7	130.6	123.8	117.8	101.7	92.3	83.8	79.1
72.5°	68.9	77.8	91.9	102.9	103.4	99.1	93.6	83.4	75.3	69.3	64.7
75°	54.4	62.1	70.6	80.4	80.0	76.6	72.3	65.9	59.1	55.3	53.2
77.5°	41.7	46.4	53.2	59.6	59.6	57.9	55.3	50.6	46.4	42.5	40.4
80°	29.8	32.8	38.3	40.4	41.3	40.8	38.7	35.3	33.6	30.6	29.8
82.5°	19.1	21.3	23.8	25.9	27.2	26.4	25.9	24.2	21.7	20.8	20.0
85°	11.1	11.9	13.2	14.5	14.9	14.5	15.3	14.0	12.8	12.8	12.3
87.5°	4.7	5.1	6.0	6.0	6.4	6.4	6.0	6.4	6.4	6.0	5.5
90°	0.7	2.3	4.0	5.6	7.3	8.1	8.7	9.9	11.0	12.2	13.4
92.5°	16.8	16.2	15.6	15.0	14.4	14.1	14.3	14.8	15.2	15.7	16.1
95°	43.7	38.8	33.8	28.9	24.0	21.5	22.0	23.1	24.1	25.2	26.2
97.5°	78.6	66.4	54.1	41.9	29.6	23.5	24.7	27.1	29.5	31.9	34.3
100°	118.9	98.5	78.0	57.6	37.1	26.9	28.2	30.7	33.2	35.8	38.3
102.5°	163.2	162.9	162.6	162.3	162.0	161.9	148.3	121.1	94.0	66.8	39.6
105°	204.2	208.7	213.1	217.6	222.1	224.3	203.9	163.2	122.5	81.7	41.0
107.5°	251.9	255.6	259.4	263.1	266.8	268.7	243.5	193.2	142.9	92.6	42.3
110°	297.6	300.7	303.9	307.0	310.1	311.7	290.1	247.0	203.8	160.7	117.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	340.5	343.2	345.9	348.6	351.3	352.6	351.3	348.8	346.3	343.7	341.2
115°	386.2	388.7	391.3	393.8	396.3	397.6	399.5	403.2	406.9	410.7	414.4
117.5°	425.8	428.8	431.8	434.8	437.8	439.3	440.6	443.1	445.6	448.2	450.7
120°	470.2	472.4	474.7	476.9	479.2	480.3	481.6	484.3	487.0	489.6	492.3
122.5°	507.8	510.2	512.6	514.9	517.3	518.5	520.0	523.0	526.0	529.0	532.0
125°	546.1	548.0	550.0	551.9	553.8	554.8	556.2	559.1	561.9	564.8	567.6
127.5°	581.0	583.1	585.2	587.3	589.4	590.4	591.5	593.8	596.0	598.3	600.5
130°	613.9	616.3	618.7	621.1	623.5	624.7	625.5	627.2	628.8	630.5	632.1
132.5°	647.5	649.4	651.4	653.3	655.2	656.2	657.0	658.7	660.3	662.0	663.6
135°	675.7	678.1	680.5	682.9	685.3	686.5	687.2	688.5	689.8	691.2	692.5
137.5°	705.3	707.1	708.9	710.6	712.4	713.3	714.0	715.5	717.0	718.5	720.0
140°	734.2	735.4	736.6	737.7	738.9	739.5	740.3	742.0	743.6	745.3	746.9
142.5°	758.3	759.3	760.4	761.4	762.5	763.0	764.0	765.9	767.9	769.8	771.8
145°	783.9	783.7	783.6	783.4	783.3	783.2	784.5	787.0	789.5	792.1	794.6
147.5°	806.0	805.6	805.1	804.7	804.2	804.0	805.3	807.8	810.3	812.9	815.4
150°	827.5	826.5	825.4	824.4	823.3	822.8	824.0	826.4	828.8	831.2	833.6
152.5°	845.7	844.5	843.3	842.1	840.9	840.3	841.4	843.7	845.9	848.2	850.4
155°	863.1	861.8	860.4	859.1	857.8	857.1	858.0	859.8	861.5	863.3	865.1
157.5°	877.2	876.0	874.8	873.6	872.4	871.8	872.5	873.8	875.2	876.5	877.9
160°	889.3	888.4	887.5	886.6	885.7	885.3	885.7	886.6	887.5	888.4	889.3
162.5°	900.1	899.2	898.3	897.4	896.5	896.0	896.4	897.1	897.9	898.6	899.4
165°	909.5	908.6	907.7	906.8	905.9	905.4	905.6	906.1	906.5	907.0	907.4
167.5°	916.9	916.0	915.1	914.2	913.3	912.8	913.0	913.5	913.9	914.4	914.8
170°	922.9	922.0	921.1	920.2	919.3	918.9	919.0	919.3	919.6	919.9	920.2
172.5°	926.9	926.0	925.1	924.2	923.3	922.9	923.0	923.3	923.6	923.9	924.2
175°	930.3	929.3	928.2	927.2	926.1	925.6	925.7	926.0	926.3	926.6	926.9
177.5°	931.6	930.6	929.5	928.5	927.4	926.9	927.0	927.1	927.3	927.4	927.6
180°	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	575.1	575.5	576.4	580.6	582.8	583.2	581.5	585.3	586.6	585.3	584.5
5°	602.3	604.9	610.0	615.5	615.1	615.5	618.1	620.6	621.5	618.1	619.3
7.5°	626.2	631.3	636.8	645.3	645.3	649.5	651.3	653.4	658.5	655.9	655.1
10°	653.4	660.2	670.4	684.0	684.4	688.7	692.9	699.7	701.9	700.2	701.0
12.5°	687.4	700.6	701.4	716.3	723.1	724.0	730.8	729.5	733.8	733.8	741.0
15°	702.3	722.7	734.2	748.7	752.9	747.8	753.3	759.3	759.7	759.7	759.3
17.5°	729.1	737.2	748.7	756.3	758.0	758.0	758.4	761.0	759.3	755.9	758.4
20°	734.6	738.0	742.3	741.4	742.3	738.0	733.8	729.5	729.9	727.8	734.2
22.5°	724.4	723.6	713.8	707.4	707.4	698.9	690.8	687.0	683.2	684.4	686.6
25°	698.9	685.7	673.8	664.4	662.3	648.7	637.6	634.2	627.9	633.0	633.8
27.5°	658.1	643.2	624.0	615.9	604.9	599.4	591.7	581.5	568.3	576.0	574.7
30°	614.2	592.1	576.4	556.8	539.4	538.1	523.6	506.6	499.8	499.8	503.6
32.5°	565.3	536.0	513.0	485.4	468.3	461.1	443.7	426.7	430.5	417.7	422.4
35°	508.3	469.6	440.7	413.9	401.1	392.6	370.1	360.7	350.5	344.6	355.6
37.5°	453.9	409.2	372.2	342.9	338.2	322.9	307.5	301.6	295.6	298.2	297.8
40°	387.5	348.0	314.8	291.8	283.7	276.5	266.3	259.1	255.2	257.4	257.8
42.5°	327.5	294.4	269.7	253.5	246.7	241.6	236.5	230.6	229.3	229.3	231.0
45°	281.2	253.9	237.4	224.2	220.3	216.5	212.7	210.1	209.3	207.6	208.9
47.5°	244.2	222.5	212.3	202.5	198.2	197.4	194.0	192.7	191.0	190.6	191.0
50°	213.1	199.5	190.1	184.6	181.6	180.4	178.7	176.1	175.3	177.4	176.5
52.5°	191.4	178.7	173.6	168.0	166.3	164.6	162.1	162.5	162.1	161.2	161.2
55°	169.7	161.6	156.5	152.3	151.9	150.2	148.0	147.2	146.8	145.9	147.2
57.5°	152.3	145.9	141.2	137.4	135.7	135.7	133.6	131.9	131.9	131.4	131.9
60°	134.8	128.5	125.5	121.7	120.4	120.0	118.7	117.8	116.6	116.6	116.6
62.5°	118.7	113.6	110.2	106.8	107.2	105.1	103.4	102.5	102.5	102.9	102.9
65°	103.4	100.0	95.7	92.7	91.9	91.5	90.6	90.2	88.9	89.8	89.8
67.5°	89.3	84.6	82.1	80.8	79.5	79.1	78.3	77.4	77.0	76.6	77.4
70°	75.3	71.5	69.3	68.5	67.2	66.8	66.4	65.1	65.5	65.9	66.4
72.5°	62.5	59.1	58.7	56.1	56.1	56.1	54.4	55.3	54.9	54.0	54.9
75°	49.3	47.6	46.8	45.5	45.9	45.5	45.1	43.8	43.8	44.2	44.7
77.5°	39.1	37.4	37.0	35.7	34.9	35.7	34.9	34.5	34.5	34.9	34.9
80°	28.9	28.1	26.8	26.8	26.8	26.4	26.4	26.4	25.9	25.5	25.9
82.5°	19.1	19.1	18.7	18.3	18.7	17.9	18.3	18.3	18.3	18.3	18.3
85°	12.3	11.9	11.9	11.5	11.5	11.5	11.9	11.1	11.1	11.5	11.5
87.5°	5.5	5.5	5.5	6.0	5.5	5.5	5.5	6.0	5.5	5.5	5.5
90°	14.2	14.9	15.7	16.4	16.8	16.9	17.2	17.5	17.8	18.1	17.8
92.5°	16.4	16.7	17.0	17.3	17.5	17.6	17.7	17.8	18.0	18.1	18.0
95°	27.0	27.7	28.5	29.2	29.6	29.5	29.4	29.2	29.1	28.9	29.1
97.5°	34.7	35.2	35.6	36.1	36.3	36.4	36.5	36.6	36.8	36.9	36.8
100°	39.5	40.7	41.9	43.1	43.7	43.8	44.1	44.4	44.7	45.0	44.7
102.5°	41.2	42.9	44.5	46.2	47.0	47.2	47.7	48.1	48.6	49.0	48.6
105°	42.6	44.3	45.9	47.6	48.4	48.7	49.3	49.8	50.4	51.0	50.4
107.5°	43.9	45.6	47.2	48.9	49.7	50.0	50.6	51.2	51.8	52.4	51.8
110°	102.6	87.7	72.8	57.9	50.4	50.7	51.3	51.9	52.5	53.1	52.5



TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	276.9	212.5	148.2	83.9	51.7	51.9	52.4	52.8	53.3	53.7	53.3
115°	345.3	276.2	207.1	138.0	103.4	98.0	87.3	76.6	65.8	55.1	65.8
117.5°	429.4	408.0	386.7	365.4	354.7	335.1	296.0	256.9	217.8	178.7	217.8
120°	494.1	495.9	497.7	499.5	500.4	490.3	470.2	450.0	429.9	409.7	429.9
122.5°	532.9	533.8	534.7	535.6	536.0	536.1	536.2	536.4	536.5	536.7	536.5
125°	568.6	569.7	570.7	571.8	572.3	572.5	573.0	573.4	573.9	574.3	573.9
127.5°	602.0	603.5	605.0	606.5	607.2	607.3	607.4	607.6	607.7	607.9	607.7
130°	633.7	635.3	637.0	638.6	639.4	639.3	639.2	639.1	638.9	638.8	638.9
132.5°	665.0	666.3	667.7	669.0	669.7	669.6	669.5	669.3	669.2	669.0	669.2
135°	694.0	695.5	697.0	698.5	699.2	699.1	698.8	698.5	698.2	697.9	698.2
137.5°	721.5	723.0	724.5	726.0	726.8	726.6	726.1	725.7	725.2	724.8	725.2
140°	748.3	749.6	751.0	752.3	753.0	752.6	751.9	751.1	750.4	749.6	750.4
142.5°	773.0	774.2	775.3	776.5	777.1	776.7	776.0	775.3	774.5	773.8	774.5
145°	795.6	796.7	797.7	798.8	799.3	798.9	798.2	797.4	796.7	795.9	796.7
147.5°	816.2	816.9	817.7	818.4	818.8	818.5	817.9	817.3	816.7	816.1	816.7
150°	834.5	835.4	836.3	837.2	837.6	837.2	836.5	835.7	835.0	834.2	835.0
152.5°	851.3	852.2	853.1	854.0	854.4	853.9	852.8	851.8	850.7	849.7	850.7
155°	866.0	866.9	867.8	868.7	869.2	868.6	867.4	866.2	865.0	863.8	865.0
157.5°	878.9	880.0	881.0	882.1	882.6	882.0	880.8	879.6	878.4	877.2	878.4
160°	890.2	891.1	892.0	892.9	893.3	892.8	891.7	890.7	889.6	888.6	889.6
162.5°	900.4	901.5	902.5	903.6	904.1	903.4	902.1	900.7	899.4	898.0	899.4
165°	908.5	909.5	910.6	911.7	912.2	911.7	910.6	909.5	908.5	907.4	908.5
167.5°	915.8	916.9	917.9	919.0	919.5	918.8	917.5	916.2	914.8	913.5	914.8
170°	921.2	922.3	923.3	924.4	924.9	924.2	922.9	921.6	920.2	918.9	920.2
172.5°	925.2	926.3	927.3	928.4	928.9	928.2	926.9	925.6	924.2	922.9	924.2
175°	927.9	929.0	930.0	931.1	931.6	930.9	929.4	927.9	926.4	924.9	926.4
177.5°	928.6	929.7	930.7	931.8	932.3	931.6	930.3	929.0	927.6	926.3	927.6
180°	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	586.6	583.6	581.1	581.5	583.6	581.9	577.7	572.1	570.0	567.5	570.0
5°	621.9	619.3	614.2	614.7	613.4	611.7	604.9	596.4	596.4	589.6	588.7
7.5°	656.8	653.0	649.5	648.7	644.0	640.6	634.7	622.8	618.1	610.0	605.3
10°	695.9	692.9	689.1	684.4	681.9	675.9	666.1	648.7	640.2	629.1	621.0
12.5°	735.5	735.0	726.5	717.2	716.8	707.4	700.6	677.2	665.7	650.8	631.7
15°	760.6	758.4	753.8	749.1	750.4	740.2	724.8	697.2	689.5	671.7	651.3
17.5°	760.1	760.1	758.9	758.0	756.7	753.8	745.3	727.0	714.6	692.1	672.9
20°	735.9	741.4	742.7	742.3	746.5	748.7	748.2	736.8	727.0	707.0	687.4
22.5°	687.4	700.2	705.7	709.1	718.0	722.7	733.8	729.5	727.0	712.1	695.5
25°	642.3	646.6	663.2	664.0	676.3	687.8	698.9	706.1	715.5	710.0	695.9
27.5°	584.0	593.8	605.7	614.7	617.2	640.6	658.9	672.5	693.8	695.5	690.8
30°	518.1	522.8	542.4	554.3	567.9	584.9	611.3	634.7	653.8	671.2	677.2
32.5°	437.7	456.9	468.3	482.8	494.7	524.9	557.2	587.4	609.6	638.9	651.7
35°	364.1	379.0	398.6	404.5	426.2	451.7	493.9	532.6	566.2	596.0	621.9
37.5°	303.3	315.2	336.0	345.4	358.2	390.9	426.2	474.3	514.7	551.3	583.6
40°	261.6	270.5	286.3	289.3	299.9	329.7	358.2	403.3	456.9	506.2	541.5
42.5°	233.1	237.4	248.0	251.8	258.6	278.6	304.1	346.7	396.5	447.5	497.3
45°	212.7	215.7	222.0	225.4	234.0	242.9	263.7	297.8	336.9	388.4	442.0
47.5°	194.4	198.2	200.8	202.9	207.6	217.4	231.0	256.1	293.5	340.7	392.6
50°	179.1	180.4	185.0	185.5	188.4	194.8	207.6	222.9	252.7	291.0	341.2
52.5°	163.8	165.0	168.0	171.0	172.3	177.4	185.9	198.7	220.8	251.0	295.6
55°	148.5	150.2	153.1	155.3	156.5	160.8	165.9	178.2	195.7	216.9	253.5
57.5°	133.1	137.0	137.8	139.1	141.2	145.9	150.6	157.8	171.4	191.0	217.8
60°	118.7	120.0	122.9	124.2	126.3	128.9	134.8	140.4	150.2	165.5	189.7
62.5°	103.8	106.8	108.0	109.3	111.0	114.0	117.8	123.8	132.3	144.6	163.8
65°	91.0	91.5	94.0	95.7	97.4	99.5	103.4	108.9	114.0	125.5	139.5
67.5°	78.7	79.5	80.4	82.1	84.2	86.4	89.8	92.7	99.1	106.8	117.8
70°	66.8	66.8	68.9	70.2	69.8	72.3	74.9	78.3	82.9	90.2	99.1
72.5°	56.1	55.7	57.4	57.9	58.7	60.4	62.1	65.5	68.1	73.6	80.4
75°	44.7	45.5	46.4	46.4	47.6	48.9	50.6	52.3	55.3	58.7	63.8
77.5°	35.3	35.3	36.2	36.6	37.9	37.4	39.1	40.8	43.0	45.9	49.8
80°	25.9	26.8	26.8	26.8	27.2	27.6	29.4	30.6	31.9	34.0	35.7
82.5°	18.3	18.3	19.1	19.1	19.1	20.0	20.0	20.4	21.3	22.5	23.8
85°	11.5	11.5	11.5	11.9	11.5	11.9	12.8	12.3	12.8	13.6	13.6
87.5°	5.5	5.5	5.5	5.5	5.5	6.0	5.5	6.0	6.4	6.4	6.4
90°	17.5	17.2	16.9	16.8	16.4	15.7	14.9	14.2	13.4	12.2	11.0
92.5°	17.8	17.7	17.6	17.5	17.3	17.0	16.7	16.4	16.1	15.7	15.2
95°	29.2	29.4	29.5	29.6	29.2	28.5	27.7	27.0	26.2	25.2	24.1
97.5°	36.6	36.5	36.4	36.3	36.1	35.6	35.2	34.7	34.3	31.9	29.5
100°	44.4	44.1	43.8	43.7	43.1	41.9	40.7	39.5	38.3	35.8	33.2
102.5°	48.1	47.7	47.2	47.0	46.2	44.5	42.9	41.2	39.6	66.8	94.0
105°	49.8	49.3	48.7	48.4	47.6	45.9	44.3	42.6	41.0	81.7	122.5
107.5°	51.2	50.6	50.0	49.7	48.9	47.2	45.6	43.9	42.3	92.6	142.9
110°	51.9	51.3	50.7	50.4	57.9	72.8	87.7	102.6	117.5	160.7	203.8

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	52.8	52.4	51.9	51.7	83.9	148.2	212.5	276.9	341.2	343.7	346.3
115°	76.6	87.3	98.0	103.4	138.0	207.1	276.2	345.3	414.4	410.7	406.9
117.5°	256.9	296.0	335.1	354.7	365.4	386.7	408.0	429.4	450.7	448.2	445.6
120°	450.0	470.2	490.3	500.4	499.5	497.7	495.9	494.1	492.3	489.6	487.0
122.5°	536.4	536.2	536.1	536.0	535.6	534.7	533.8	532.9	532.0	529.0	526.0
125°	573.4	573.0	572.5	572.3	571.8	570.7	569.7	568.6	567.6	564.8	561.9
127.5°	607.6	607.4	607.3	607.2	606.5	605.0	603.5	602.0	600.5	598.3	596.0
130°	639.1	639.2	639.3	639.4	638.6	637.0	635.3	633.7	632.1	630.5	628.8
132.5°	669.3	669.5	669.6	669.7	669.0	667.7	666.3	665.0	663.6	662.0	660.3
135°	698.5	698.8	699.1	699.2	698.5	697.0	695.5	694.0	692.5	691.2	689.8
137.5°	725.7	726.1	726.6	726.8	726.0	724.5	723.0	721.5	720.0	718.5	717.0
140°	751.1	751.9	752.6	753.0	752.3	751.0	749.6	748.3	746.9	745.3	743.6
142.5°	775.3	776.0	776.7	777.1	776.5	775.3	774.2	773.0	771.8	769.8	767.9
145°	797.4	798.2	798.9	799.3	798.8	797.7	796.7	795.6	794.6	792.1	789.5
147.5°	817.3	817.9	818.5	818.8	818.4	817.7	816.9	816.2	815.4	812.9	810.3
150°	835.7	836.5	837.2	837.6	837.2	836.3	835.4	834.5	833.6	831.2	828.8
152.5°	851.8	852.8	853.9	854.4	854.0	853.1	852.2	851.3	850.4	848.2	845.9
155°	866.2	867.4	868.6	869.2	868.7	867.8	866.9	866.0	865.1	863.3	861.5
157.5°	879.6	880.8	882.0	882.6	882.1	881.0	880.0	878.9	877.9	876.5	875.2
160°	890.7	891.7	892.8	893.3	892.9	892.0	891.1	890.2	889.3	888.4	887.5
162.5°	900.7	902.1	903.4	904.1	903.6	902.5	901.5	900.4	899.4	898.6	897.9
165°	909.5	910.6	911.7	912.2	911.7	910.6	909.5	908.5	907.4	907.0	906.5
167.5°	916.2	917.5	918.8	919.5	919.0	917.9	916.9	915.8	914.8	914.4	913.9
170°	921.6	922.9	924.2	924.9	924.4	923.3	922.3	921.2	920.2	919.9	919.6
172.5°	925.6	926.9	928.2	928.9	928.4	927.3	926.3	925.2	924.2	923.9	923.6
175°	927.9	929.4	930.9	931.6	931.1	930.0	929.0	927.9	926.9	926.6	926.3
177.5°	929.0	930.3	931.6	932.3	931.8	930.7	929.7	928.6	927.6	927.4	927.3
180°	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	567.9	565.7	564.5	565.3	562.8	556.4	556.4	558.5	556.0	553.4	549.6
5°	583.6	579.4	576.8	576.4	570.4	560.2	558.1	556.0	550.4	544.5	538.1
7.5°	598.9	591.3	587.0	584.0	575.5	562.3	556.8	552.1	543.2	534.3	526.2
10°	611.7	600.6	595.5	590.8	579.8	563.2	554.3	545.8	534.3	522.8	512.6
12.5°	621.9	609.1	602.8	596.0	582.3	560.6	549.6	536.0	524.5	509.2	499.0
15°	638.9	612.5	606.6	600.2	586.2	556.4	542.8	527.5	511.7	491.3	480.2
17.5°	652.5	617.2	616.8	603.2	584.9	554.7	533.8	513.9	496.8	476.4	459.0
20°	660.6	624.5	617.6	603.6	580.6	543.2	521.5	499.4	481.1	456.4	439.0
22.5°	667.4	634.7	616.8	599.8	571.7	539.4	507.5	486.6	461.5	434.7	418.1
25°	670.0	636.8	618.1	598.5	565.3	528.3	492.2	469.6	441.5	417.3	394.7
27.5°	670.4	636.4	613.4	593.0	556.4	513.9	476.8	453.0	422.0	393.9	371.4
30°	666.1	631.7	610.8	588.7	547.9	500.7	458.1	431.8	398.6	370.5	347.1
32.5°	653.4	622.3	605.3	581.1	536.8	482.4	440.3	410.9	376.0	348.4	325.8
35°	632.1	610.8	592.1	569.6	522.4	465.4	422.4	387.9	352.6	326.3	305.0
37.5°	605.7	594.3	576.8	554.7	505.8	450.0	402.4	364.1	328.8	303.3	282.4
40°	570.0	573.0	556.0	536.0	486.2	429.2	376.5	339.9	306.7	282.9	262.5
42.5°	531.3	543.6	533.8	514.7	464.5	406.2	357.3	316.9	284.6	259.9	242.9
45°	489.6	510.9	504.9	490.9	442.0	382.0	330.1	291.0	262.5	238.6	223.7
47.5°	444.1	474.3	474.3	464.1	416.9	357.7	306.7	266.7	238.6	221.6	207.2
50°	397.7	431.8	437.3	430.5	388.8	330.1	278.2	242.0	217.8	201.2	190.6
52.5°	349.2	388.8	399.0	395.6	359.0	303.7	254.8	219.5	197.4	182.9	173.6
55°	302.9	348.8	359.9	361.1	327.1	274.8	228.9	197.8	176.5	166.7	158.7
57.5°	259.1	303.3	315.6	317.8	294.8	248.4	204.6	177.4	158.2	150.2	143.8
60°	221.6	258.6	274.8	279.5	259.5	217.8	182.1	155.7	141.2	133.6	127.6
62.5°	191.0	220.8	237.8	239.1	230.1	191.0	158.7	136.5	124.2	117.4	114.4
65°	161.2	188.0	198.2	203.3	196.1	165.5	137.0	118.7	108.9	102.9	100.0
67.5°	137.4	154.4	162.9	169.7	162.5	139.5	116.6	101.7	94.4	88.5	86.8
70°	112.7	126.8	133.1	139.9	133.6	116.1	99.5	85.9	79.5	74.9	72.7
72.5°	90.2	101.2	107.2	111.4	107.6	93.2	79.5	70.2	65.5	62.1	60.8
75°	71.5	79.1	82.5	85.5	83.8	72.7	64.2	56.6	52.3	49.3	48.5
77.5°	54.4	60.0	63.8	64.7	62.5	55.3	48.1	43.4	40.0	38.3	37.4
80°	38.7	42.1	44.2	45.5	43.4	40.4	35.3	31.9	28.9	26.8	26.4
82.5°	25.9	27.6	29.4	28.9	28.1	25.5	22.5	20.8	19.6	17.9	17.9
85°	14.9	15.3	16.2	16.6	16.2	14.5	12.8	11.9	11.1	9.8	9.8
87.5°	6.4	6.8	6.8	7.2	6.4	6.4	5.5	4.7	4.7	4.3	3.8
90°	9.9	8.7	8.1	7.3	5.6	4.0	2.3	0.7	2.3	4.0	5.6
92.5°	14.8	14.3	14.1	14.4	15.0	15.6	16.2	16.8	16.2	15.6	15.0
95°	23.1	22.0	21.5	24.0	28.9	33.8	38.8	43.7	38.8	33.8	28.9
97.5°	27.1	24.7	23.5	29.6	41.9	54.1	66.4	78.6	66.4	54.1	41.9
100°	30.7	28.2	26.9	37.1	57.6	78.0	98.5	118.9	98.5	78.0	57.6
102.5°	121.1	148.3	161.9	162.0	162.3	162.6	162.9	163.2	162.9	162.6	162.3
105°	163.2	203.9	224.3	222.1	217.6	213.1	208.7	204.2	208.7	213.1	217.6
107.5°	193.2	243.5	268.7	266.8	263.1	259.4	255.6	251.9	255.6	259.4	263.1
110°	247.0	290.1	311.7	310.1	307.0	303.9	300.7	297.6	300.7	303.9	307.0

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	348.8	351.3	352.6	351.3	348.6	345.9	343.2	340.5	343.2	345.9	348.6
115°	403.2	399.5	397.6	396.3	393.8	391.3	388.7	386.2	388.7	391.3	393.8
117.5°	443.1	440.6	439.3	437.8	434.8	431.8	428.8	425.8	428.8	431.8	434.8
120°	484.3	481.6	480.3	479.2	476.9	474.7	472.4	470.2	472.4	474.7	476.9
122.5°	523.0	520.0	518.5	517.3	514.9	512.6	510.2	507.8	510.2	512.6	514.9
125°	559.1	556.2	554.8	553.8	551.9	550.0	548.0	546.1	548.0	550.0	551.9
127.5°	593.8	591.5	590.4	589.4	587.3	585.2	583.1	581.0	583.1	585.2	587.3
130°	627.2	625.5	624.7	623.5	621.1	618.7	616.3	613.9	616.3	618.7	621.1
132.5°	658.7	657.0	656.2	655.2	653.3	651.4	649.4	647.5	649.4	651.4	653.3
135°	688.5	687.2	686.5	685.3	682.9	680.5	678.1	675.7	678.1	680.5	682.9
137.5°	715.5	714.0	713.3	712.4	710.6	708.9	707.1	705.3	707.1	708.9	710.6
140°	742.0	740.3	739.5	738.9	737.7	736.6	735.4	734.2	735.4	736.6	737.7
142.5°	765.9	764.0	763.0	762.5	761.4	760.4	759.3	758.3	759.3	760.4	761.4
145°	787.0	784.5	783.2	783.3	783.4	783.6	783.7	783.9	783.7	783.6	783.4
147.5°	807.8	805.3	804.0	804.2	804.7	805.1	805.6	806.0	805.6	805.1	804.7
150°	826.4	824.0	822.8	823.3	824.4	825.4	826.5	827.5	826.5	825.4	824.4
152.5°	843.7	841.4	840.3	840.9	842.1	843.3	844.5	845.7	844.5	843.3	842.1
155°	859.8	858.0	857.1	857.8	859.1	860.4	861.8	863.1	861.8	860.4	859.1
157.5°	873.8	872.5	871.8	872.4	873.6	874.8	876.0	877.2	876.0	874.8	873.6
160°	886.6	885.7	885.3	885.7	886.6	887.5	888.4	889.3	888.4	887.5	886.6
162.5°	897.1	896.4	896.0	896.5	897.4	898.3	899.2	900.1	899.2	898.3	897.4
165°	906.1	905.6	905.4	905.9	906.8	907.7	908.6	909.5	908.6	907.7	906.8
167.5°	913.5	913.0	912.8	913.3	914.2	915.1	916.0	916.9	916.0	915.1	914.2
170°	919.3	919.0	918.9	919.3	920.2	921.1	922.0	922.9	922.0	921.1	920.2
172.5°	923.3	923.0	922.9	923.3	924.2	925.1	926.0	926.9	926.0	925.1	924.2
175°	926.0	925.7	925.6	926.1	927.2	928.2	929.3	930.3	929.3	928.2	927.2
177.5°	927.1	927.0	926.9	927.4	928.5	929.5	930.6	931.6	930.6	929.5	928.5
180°	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	547.5	549.6	549.2	544.9	540.2	536.4	529.2	530.0	527.5	527.9	530.4
5°	533.8	533.8	532.1	526.2	518.5	514.3	506.2	504.1	499.0	498.5	498.1
7.5°	519.4	517.3	515.1	506.6	497.3	490.5	479.4	476.8	471.7	468.3	466.6
10°	502.4	499.4	495.1	485.4	473.9	465.4	453.9	450.5	440.7	436.4	433.9
12.5°	483.7	482.0	475.1	467.1	448.3	439.0	422.4	425.8	416.0	407.5	406.2
15°	464.9	458.6	454.7	441.5	419.0	414.7	401.6	394.7	385.8	379.0	379.0
17.5°	446.6	436.9	428.4	414.3	397.7	385.8	376.0	372.6	361.6	354.8	353.5
20°	422.4	411.3	409.2	389.2	377.7	364.5	355.2	346.7	338.6	335.6	333.5
22.5°	399.4	386.7	383.3	366.2	354.8	341.6	332.2	326.3	320.3	318.2	314.4
25°	374.8	367.1	362.0	343.7	330.9	318.6	312.2	308.0	302.4	302.0	299.5
27.5°	350.9	343.7	338.6	321.2	311.8	300.3	295.2	290.5	287.6	286.3	285.0
30°	330.5	322.4	316.5	303.7	292.2	282.9	278.6	275.6	273.9	271.8	271.4
32.5°	308.0	303.3	295.2	285.4	276.5	267.6	265.0	262.9	260.3	259.5	259.1
35°	288.8	282.4	277.3	266.3	262.5	254.8	251.8	250.1	246.7	245.9	245.0
37.5°	270.1	264.2	258.6	251.8	244.6	240.3	238.6	236.1	234.4	234.8	234.0
40°	251.4	246.7	242.5	235.2	231.0	228.9	225.4	222.9	222.0	222.5	222.0
42.5°	233.1	228.9	226.3	220.8	216.5	214.4	212.3	209.7	211.0	211.0	212.3
45°	216.5	212.7	211.0	206.7	204.2	200.8	198.7	198.2	199.9	199.5	199.5
47.5°	199.5	198.2	196.1	192.3	188.9	186.7	186.3	186.3	188.0	188.9	188.4
50°	186.3	183.8	181.2	178.2	175.7	174.8	173.6	174.4	176.1	176.1	177.0
52.5°	169.7	168.0	167.2	164.6	162.9	162.9	162.9	163.3	164.6	165.9	165.5
55°	155.3	154.0	153.1	151.9	149.7	150.2	149.7	150.6	151.9	153.1	154.0
57.5°	139.9	139.5	138.7	136.5	136.5	136.1	137.4	137.8	139.9	140.8	142.1
60°	126.3	125.1	125.1	123.4	123.4	123.4	124.6	125.9	127.6	128.0	128.9
62.5°	111.9	111.9	111.4	110.2	110.2	111.4	111.9	113.6	114.4	114.4	115.7
65°	98.3	97.8	97.4	97.8	98.3	98.3	99.5	100.4	101.2	101.7	102.1
67.5°	84.6	84.2	85.1	84.6	85.5	87.2	86.8	88.1	89.3	89.3	89.8
70°	71.9	72.7	72.3	73.2	72.7	73.6	74.9	75.3	75.3	75.7	77.0
72.5°	60.0	60.0	60.0	59.6	60.0	60.8	61.7	62.1	63.0	63.4	64.7
75°	48.5	48.5	47.6	48.5	48.5	49.3	50.2	50.2	50.2	51.0	52.3
77.5°	36.6	37.0	36.6	37.4	37.4	37.9	38.7	38.3	39.1	39.6	40.0
80°	26.8	26.4	26.4	26.4	26.8	26.8	27.6	28.1	28.1	29.4	28.5
82.5°	17.0	17.4	17.0	17.4	17.4	17.9	17.4	17.9	18.3	19.1	18.7
85°	9.8	9.4	9.4	9.8	9.4	9.4	9.8	9.4	9.8	9.4	9.8
87.5°	3.8	3.4	3.4	3.4	3.4	3.0	3.0	2.6	2.6	2.6	2.1
90°	7.3	8.1	8.7	9.9	11.0	12.2	13.4	14.2	14.9	15.7	16.4
92.5°	14.4	14.1	14.3	14.8	15.2	15.7	16.1	16.4	16.7	17.0	17.3
95°	24.0	21.5	22.0	23.1	24.1	25.2	26.2	27.0	27.7	28.5	29.2
97.5°	29.6	23.5	24.7	27.1	29.5	31.9	34.3	34.7	35.2	35.6	36.1
100°	37.1	26.9	28.2	30.7	33.2	35.8	38.3	39.5	40.7	41.9	43.1
102.5°	162.0	161.9	148.3	121.1	94.0	66.8	39.6	41.2	42.9	44.5	46.2
105°	222.1	224.3	203.9	163.2	122.5	81.7	41.0	42.6	44.3	45.9	47.6
107.5°	266.8	268.7	243.5	193.2	142.9	92.6	42.3	43.9	45.6	47.2	48.9
110°	310.1	311.7	290.1	247.0	203.8	160.7	117.5	102.6	87.7	72.8	57.9

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	351.3	352.6	351.3	348.8	346.3	343.7	341.2	276.9	212.5	148.2	83.9
115°	396.3	397.6	399.5	403.2	406.9	410.7	414.4	345.3	276.2	207.1	138.0
117.5°	437.8	439.3	440.6	443.1	445.6	448.2	450.7	429.4	408.0	386.7	365.4
120°	479.2	480.3	481.6	484.3	487.0	489.6	492.3	494.1	495.9	497.7	499.5
122.5°	517.3	518.5	520.0	523.0	526.0	529.0	532.0	532.9	533.8	534.7	535.6
125°	553.8	554.8	556.2	559.1	561.9	564.8	567.6	568.6	569.7	570.7	571.8
127.5°	589.4	590.4	591.5	593.8	596.0	598.3	600.5	602.0	603.5	605.0	606.5
130°	623.5	624.7	625.5	627.2	628.8	630.5	632.1	633.7	635.3	637.0	638.6
132.5°	655.2	656.2	657.0	658.7	660.3	662.0	663.6	665.0	666.3	667.7	669.0
135°	685.3	686.5	687.2	688.5	689.8	691.2	692.5	694.0	695.5	697.0	698.5
137.5°	712.4	713.3	714.0	715.5	717.0	718.5	720.0	721.5	723.0	724.5	726.0
140°	738.9	739.5	740.3	742.0	743.6	745.3	746.9	748.3	749.6	751.0	752.3
142.5°	762.5	763.0	764.0	765.9	767.9	769.8	771.8	773.0	774.2	775.3	776.5
145°	783.3	783.2	784.5	787.0	789.5	792.1	794.6	795.6	796.7	797.7	798.8
147.5°	804.2	804.0	805.3	807.8	810.3	812.9	815.4	816.2	816.9	817.7	818.4
150°	823.3	822.8	824.0	826.4	828.8	831.2	833.6	834.5	835.4	836.3	837.2
152.5°	840.9	840.3	841.4	843.7	845.9	848.2	850.4	851.3	852.2	853.1	854.0
155°	857.8	857.1	858.0	859.8	861.5	863.3	865.1	866.0	866.9	867.8	868.7
157.5°	872.4	871.8	872.5	873.8	875.2	876.5	877.9	878.9	880.0	881.0	882.1
160°	885.7	885.3	885.7	886.6	887.5	888.4	889.3	890.2	891.1	892.0	892.9
162.5°	896.5	896.0	896.4	897.1	897.9	898.6	899.4	900.4	901.5	902.5	903.6
165°	905.9	905.4	905.6	906.1	906.5	907.0	907.4	908.5	909.5	910.6	911.7
167.5°	913.3	912.8	913.0	913.5	913.9	914.4	914.8	915.8	916.9	917.9	919.0
170°	919.3	918.9	919.0	919.3	919.6	919.9	920.2	921.2	922.3	923.3	924.4
172.5°	923.3	922.9	923.0	923.3	923.6	923.9	924.2	925.2	926.3	927.3	928.4
175°	926.1	925.6	925.7	926.0	926.3	926.6	926.9	927.9	929.0	930.0	931.1
177.5°	927.4	926.9	927.0	927.1	927.3	927.4	927.6	928.6	929.7	930.7	931.8
180°	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	527.5	528.7	525.8	524.9	525.8	522.8	523.6	524.5	524.5	525.8	526.6
5°	496.8	495.1	492.2	491.3	490.5	491.7	490.9	492.2	492.6	495.6	496.0
7.5°	466.6	464.1	461.5	459.0	458.1	456.0	458.1	458.1	461.1	460.3	462.4
10°	430.9	430.5	427.1	425.8	424.1	420.7	425.4	424.1	426.2	430.1	430.9
12.5°	404.5	399.9	402.0	396.0	398.2	394.7	395.2	395.2	398.6	399.0	398.2
15°	379.4	375.6	370.1	367.5	366.2	364.5	370.1	370.5	368.0	373.9	371.8
17.5°	353.9	353.9	348.8	347.5	344.1	345.8	345.0	345.4	344.6	348.8	350.9
20°	331.8	329.7	328.0	328.4	324.1	323.3	322.4	323.3	326.3	329.2	330.1
22.5°	313.9	312.7	308.4	309.2	305.8	307.1	306.3	308.4	308.8	308.8	311.8
25°	296.9	295.2	295.6	293.9	292.7	292.7	291.4	292.7	294.4	295.2	295.6
27.5°	284.2	282.9	280.7	279.5	280.3	278.2	279.9	281.2	281.2	280.3	281.2
30°	268.8	269.7	269.7	265.4	267.1	266.3	267.6	268.4	268.4	268.8	268.0
32.5°	258.6	256.1	255.7	255.2	255.2	253.5	253.5	254.8	255.2	255.7	256.9
35°	245.0	245.0	242.9	244.2	242.5	242.9	242.5	242.9	243.7	242.5	243.7
37.5°	232.7	233.1	232.3	233.1	233.5	232.7	231.8	233.5	232.7	232.7	231.8
40°	222.0	221.6	222.0	222.0	222.0	222.5	221.6	221.6	221.6	220.8	219.9
42.5°	213.1	210.6	211.4	211.8	210.6	210.6	211.0	210.6	211.8	209.3	209.3
45°	200.4	199.5	199.9	199.9	200.8	199.5	200.4	200.8	199.5	199.1	198.2
47.5°	188.9	189.7	188.9	189.7	189.7	190.6	188.9	189.3	189.7	188.0	186.7
50°	177.4	177.4	178.7	178.2	178.7	177.8	177.8	177.4	177.8	177.0	175.7
52.5°	166.7	165.5	167.6	167.2	166.7	166.3	165.9	166.3	165.5	164.6	164.6
55°	153.6	153.6	154.8	155.3	155.3	154.4	153.6	154.0	153.6	153.1	152.7
57.5°	142.9	141.2	142.1	142.5	142.5	141.2	142.1	141.2	141.2	141.7	140.4
60°	129.3	129.3	128.5	129.7	129.7	128.9	128.9	129.3	128.5	128.0	127.6
62.5°	114.9	115.3	116.6	117.0	117.4	116.6	115.7	116.1	116.1	114.9	115.3
65°	102.5	103.4	105.1	104.6	103.8	104.2	103.4	103.8	102.5	102.9	101.7
67.5°	90.6	90.2	90.6	90.6	91.5	91.0	90.2	90.2	89.8	91.0	89.8
70°	77.8	77.8	77.8	77.8	78.3	78.7	77.8	77.0	77.4	76.6	76.1
72.5°	64.7	65.1	64.7	65.5	64.2	65.1	65.1	64.7	64.2	64.2	64.2
75°	52.3	53.2	51.9	52.3	51.9	52.7	52.3	52.3	51.5	51.0	51.5
77.5°	40.0	40.4	39.6	40.0	39.6	40.0	40.0	39.6	39.6	39.6	39.6
80°	28.5	28.9	28.5	28.1	27.6	28.5	27.6	28.1	28.5	28.1	28.9
82.5°	18.3	18.3	17.9	18.3	17.4	17.4	17.9	17.9	17.4	18.3	17.4
85°	8.9	8.9	9.8	8.9	8.5	8.5	8.5	8.9	8.5	9.4	8.9
87.5°	2.1	1.7	2.1	2.1	1.7	1.7	2.1	1.7	2.1	2.6	1.7
90°	16.8	16.9	17.2	17.5	17.8	18.1	17.8	17.5	17.2	16.9	16.8
92.5°	17.5	17.6	17.7	17.8	18.0	18.1	18.0	17.8	17.7	17.6	17.5
95°	29.6	29.5	29.4	29.2	29.1	28.9	29.1	29.2	29.4	29.5	29.6
97.5°	36.3	36.4	36.5	36.6	36.8	36.9	36.8	36.6	36.5	36.4	36.3
100°	43.7	43.8	44.1	44.4	44.7	45.0	44.7	44.4	44.1	43.8	43.7
102.5°	47.0	47.2	47.7	48.1	48.6	49.0	48.6	48.1	47.7	47.2	47.0
105°	48.4	48.7	49.3	49.8	50.4	51.0	50.4	49.8	49.3	48.7	48.4
107.5°	49.7	50.0	50.6	51.2	51.8	52.4	51.8	51.2	50.6	50.0	49.7
110°	50.4	50.7	51.3	51.9	52.5	53.1	52.5	51.9	51.3	50.7	50.4

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	51.7	51.9	52.4	52.8	53.3	53.7	53.3	52.8	52.4	51.9	51.7
115°	103.4	98.0	87.3	76.6	65.8	55.1	65.8	76.6	87.3	98.0	103.4
117.5°	354.7	335.1	296.0	256.9	217.8	178.7	217.8	256.9	296.0	335.1	354.7
120°	500.4	490.3	470.2	450.0	429.9	409.7	429.9	450.0	470.2	490.3	500.4
122.5°	536.0	536.1	536.2	536.4	536.5	536.7	536.5	536.4	536.2	536.1	536.0
125°	572.3	572.5	573.0	573.4	573.9	574.3	573.9	573.4	573.0	572.5	572.3
127.5°	607.2	607.3	607.4	607.6	607.7	607.9	607.7	607.6	607.4	607.3	607.2
130°	639.4	639.3	639.2	639.1	638.9	638.8	638.9	639.1	639.2	639.3	639.4
132.5°	669.7	669.6	669.5	669.3	669.2	669.0	669.2	669.3	669.5	669.6	669.7
135°	699.2	699.1	698.8	698.5	698.2	697.9	698.2	698.5	698.8	699.1	699.2
137.5°	726.8	726.6	726.1	725.7	725.2	724.8	725.2	725.7	726.1	726.6	726.8
140°	753.0	752.6	751.9	751.1	750.4	749.6	750.4	751.1	751.9	752.6	753.0
142.5°	777.1	776.7	776.0	775.3	774.5	773.8	774.5	775.3	776.0	776.7	777.1
145°	799.3	798.9	798.2	797.4	796.7	795.9	796.7	797.4	798.2	798.9	799.3
147.5°	818.8	818.5	817.9	817.3	816.7	816.1	816.7	817.3	817.9	818.5	818.8
150°	837.6	837.2	836.5	835.7	835.0	834.2	835.0	835.7	836.5	837.2	837.6
152.5°	854.4	853.9	852.8	851.8	850.7	849.7	850.7	851.8	852.8	853.9	854.4
155°	869.2	868.6	867.4	866.2	865.0	863.8	865.0	866.2	867.4	868.6	869.2
157.5°	882.6	882.0	880.8	879.6	878.4	877.2	878.4	879.6	880.8	882.0	882.6
160°	893.3	892.8	891.7	890.7	889.6	888.6	889.6	890.7	891.7	892.8	893.3
162.5°	904.1	903.4	902.1	900.7	899.4	898.0	899.4	900.7	902.1	903.4	904.1
165°	912.2	911.7	910.6	909.5	908.5	907.4	908.5	909.5	910.6	911.7	912.2
167.5°	919.5	918.8	917.5	916.2	914.8	913.5	914.8	916.2	917.5	918.8	919.5
170°	924.9	924.2	922.9	921.6	920.2	918.9	920.2	921.6	922.9	924.2	924.9
172.5°	928.9	928.2	926.9	925.6	924.2	922.9	924.2	925.6	926.9	928.2	928.9
175°	931.6	930.9	929.4	927.9	926.4	924.9	926.4	927.9	929.4	930.9	931.6
177.5°	932.3	931.6	930.3	929.0	927.6	926.3	927.6	929.0	930.3	931.6	932.3
180°	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	525.3	528.7	527.5	522.8	528.3	528.3	532.1	532.1	536.8	538.5	541.1
5°	495.6	498.1	500.2	498.1	501.9	507.9	511.3	514.3	520.7	523.2	527.0
7.5°	463.7	468.3	470.5	470.5	476.8	483.7	490.5	494.7	503.6	507.0	510.9
10°	432.6	438.1	442.4	442.0	452.6	456.9	465.4	475.1	484.1	489.2	494.7
12.5°	399.9	402.8	408.8	417.3	419.8	427.5	437.3	449.6	465.8	470.5	478.5
15°	372.6	380.7	385.4	389.2	395.2	402.4	413.0	425.0	441.1	451.3	459.8
17.5°	349.7	360.3	363.3	362.4	370.1	381.1	393.5	402.4	416.9	429.2	437.3
20°	330.9	335.2	340.3	342.4	348.4	360.3	372.2	382.4	394.3	404.1	413.5
22.5°	312.2	315.6	319.9	323.7	328.4	335.2	346.7	359.4	370.9	380.3	390.9
25°	296.9	299.0	302.9	305.8	310.9	315.6	323.7	337.7	351.4	356.9	366.2
27.5°	282.0	283.7	286.3	289.7	292.2	296.9	304.1	315.6	329.7	335.2	348.0
30°	268.8	270.1	272.7	274.4	275.6	281.2	286.7	295.6	306.3	313.9	323.3
32.5°	256.5	257.8	260.3	260.8	262.5	265.4	270.5	278.6	288.0	294.4	302.4
35°	242.9	243.7	246.3	247.1	248.4	251.0	254.8	260.8	269.3	273.9	281.2
37.5°	232.3	231.8	233.5	234.8	236.5	237.8	239.1	245.0	251.4	255.7	261.2
40°	220.8	219.9	220.3	222.0	222.9	224.6	224.6	230.6	234.8	238.2	242.5
42.5°	209.3	208.9	208.0	208.9	209.7	210.1	210.6	214.8	219.1	222.0	226.7
45°	197.8	197.4	196.5	196.9	196.9	197.8	199.1	200.8	203.8	206.3	208.9
47.5°	187.2	186.3	185.0	184.6	185.5	185.5	185.5	187.2	190.1	191.0	193.5
50°	176.1	174.8	173.1	172.3	172.3	171.9	172.7	173.1	175.7	176.5	178.7
52.5°	164.2	163.3	161.6	159.9	160.4	159.5	159.9	160.4	161.2	162.5	163.8
55°	152.3	150.6	149.3	148.9	147.6	147.6	146.3	148.0	147.6	148.0	149.7
57.5°	140.8	139.1	137.0	136.1	134.8	134.4	133.6	133.1	133.6	134.8	136.1
60°	127.2	126.3	125.1	123.8	122.9	121.7	120.8	120.8	120.4	120.4	120.8
62.5°	114.0	113.6	111.9	111.4	110.6	109.7	108.5	107.6	107.6	108.5	108.9
65°	101.2	100.8	99.5	99.1	97.0	96.1	95.7	95.3	94.4	94.4	94.4
67.5°	89.3	88.1	88.1	85.9	84.2	83.4	82.5	82.1	82.1	82.1	82.5
70°	76.1	76.1	74.9	73.6	71.9	72.3	71.0	69.8	69.8	68.9	69.3
72.5°	63.4	63.0	61.7	61.3	60.0	58.7	57.9	58.7	57.4	57.0	57.4
75°	51.0	50.6	49.8	48.9	49.3	48.1	46.8	46.4	46.4	45.5	45.5
77.5°	39.1	40.0	38.3	37.9	37.0	36.2	35.7	35.3	35.3	35.3	36.2
80°	27.2	27.6	27.6	26.8	27.2	25.9	25.9	25.9	24.7	25.1	25.5
82.5°	17.4	17.4	17.0	17.4	17.0	17.0	16.6	16.6	16.2	16.2	16.6
85°	9.8	9.4	8.9	9.8	9.4	9.4	8.9	8.9	8.9	8.9	8.9
87.5°	2.1	2.6	2.6	2.6	2.6	3.0	3.0	3.0	3.4	3.4	3.4
90°	16.4	15.7	14.9	14.2	13.4	12.2	11.0	9.9	8.7	8.1	7.3
92.5°	17.3	17.0	16.7	16.4	16.1	15.7	15.2	14.8	14.3	14.1	14.4
95°	29.2	28.5	27.7	27.0	26.2	25.2	24.1	23.1	22.0	21.5	24.0
97.5°	36.1	35.6	35.2	34.7	34.3	31.9	29.5	27.1	24.7	23.5	29.6
100°	43.1	41.9	40.7	39.5	38.3	35.8	33.2	30.7	28.2	26.9	37.1
102.5°	46.2	44.5	42.9	41.2	39.6	66.8	94.0	121.1	148.3	161.9	162.0
105°	47.6	45.9	44.3	42.6	41.0	81.7	122.5	163.2	203.9	224.3	222.1
107.5°	48.9	47.2	45.6	43.9	42.3	92.6	142.9	193.2	243.5	268.7	266.8
110°	57.9	72.8	87.7	102.6	117.5	160.7	203.8	247.0	290.1	311.7	310.1

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	83.9	148.2	212.5	276.9	341.2	343.7	346.3	348.8	351.3	352.6	351.3
115°	138.0	207.1	276.2	345.3	414.4	410.7	406.9	403.2	399.5	397.6	396.3
117.5°	365.4	386.7	408.0	429.4	450.7	448.2	445.6	443.1	440.6	439.3	437.8
120°	499.5	497.7	495.9	494.1	492.3	489.6	487.0	484.3	481.6	480.3	479.2
122.5°	535.6	534.7	533.8	532.9	532.0	529.0	526.0	523.0	520.0	518.5	517.3
125°	571.8	570.7	569.7	568.6	567.6	564.8	561.9	559.1	556.2	554.8	553.8
127.5°	606.5	605.0	603.5	602.0	600.5	598.3	596.0	593.8	591.5	590.4	589.4
130°	638.6	637.0	635.3	633.7	632.1	630.5	628.8	627.2	625.5	624.7	623.5
132.5°	669.0	667.7	666.3	665.0	663.6	662.0	660.3	658.7	657.0	656.2	655.2
135°	698.5	697.0	695.5	694.0	692.5	691.2	689.8	688.5	687.2	686.5	685.3
137.5°	726.0	724.5	723.0	721.5	720.0	718.5	717.0	715.5	714.0	713.3	712.4
140°	752.3	751.0	749.6	748.3	746.9	745.3	743.6	742.0	740.3	739.5	738.9
142.5°	776.5	775.3	774.2	773.0	771.8	769.8	767.9	765.9	764.0	763.0	762.5
145°	798.8	797.7	796.7	795.6	794.6	792.1	789.5	787.0	784.5	783.2	783.3
147.5°	818.4	817.7	816.9	816.2	815.4	812.9	810.3	807.8	805.3	804.0	804.2
150°	837.2	836.3	835.4	834.5	833.6	831.2	828.8	826.4	824.0	822.8	823.3
152.5°	854.0	853.1	852.2	851.3	850.4	848.2	845.9	843.7	841.4	840.3	840.9
155°	868.7	867.8	866.9	866.0	865.1	863.3	861.5	859.8	858.0	857.1	857.8
157.5°	882.1	881.0	880.0	878.9	877.9	876.5	875.2	873.8	872.5	871.8	872.4
160°	892.9	892.0	891.1	890.2	889.3	888.4	887.5	886.6	885.7	885.3	885.7
162.5°	903.6	902.5	901.5	900.4	899.4	898.6	897.9	897.1	896.4	896.0	896.5
165°	911.7	910.6	909.5	908.5	907.4	907.0	906.5	906.1	905.6	905.4	905.9
167.5°	919.0	917.9	916.9	915.8	914.8	914.4	913.9	913.5	913.0	912.8	913.3
170°	924.4	923.3	922.3	921.2	920.2	919.9	919.6	919.3	919.0	918.9	919.3
172.5°	928.4	927.3	926.3	925.2	924.2	923.9	923.6	923.3	923.0	922.9	923.3
175°	931.1	930.0	929.0	927.9	926.9	926.6	926.3	926.0	925.7	925.6	926.1
177.5°	931.8	930.7	929.7	928.6	927.6	927.4	927.3	927.1	927.0	926.9	927.4
180°	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3	928.3

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	553.4	553.4	553.4	553.4
2.5°	543.2	543.2	549.6	556.4
5°	531.3	534.3	544.5	553.8
7.5°	519.8	524.9	537.7	549.6
10°	505.8	512.6	528.3	542.4
12.5°	492.2	498.5	516.8	532.6
15°	473.0	481.1	500.7	520.2
17.5°	453.9	462.0	485.8	508.7
20°	431.3	442.0	468.8	499.4
22.5°	410.5	423.7	453.5	478.1
25°	387.5	407.9	435.6	467.5
27.5°	367.1	387.5	415.6	447.9
30°	344.1	365.0	393.9	423.7
32.5°	322.0	341.2	369.2	405.8
35°	299.0	317.3	344.6	381.6
37.5°	278.2	296.1	325.8	359.9
40°	257.8	276.5	302.0	336.0
42.5°	238.6	255.2	278.2	312.2
45°	221.2	233.1	254.4	286.3
47.5°	202.9	213.5	233.1	265.0
50°	185.9	194.8	211.8	241.6
52.5°	169.3	177.0	192.7	216.5
55°	154.4	161.6	173.1	196.5
57.5°	139.1	144.6	155.7	174.4
60°	124.2	129.3	138.2	153.6
62.5°	109.3	113.6	122.1	134.4
65°	96.1	99.5	105.9	116.6
67.5°	83.4	85.5	90.6	99.1
70°	71.0	72.7	77.0	83.8
72.5°	57.9	59.6	64.2	68.9
75°	46.8	47.2	50.6	54.4
77.5°	36.6	36.2	38.7	41.7
80°	25.1	26.4	28.5	29.8
82.5°	17.0	17.4	18.3	19.1
85°	9.4	9.8	9.8	11.1
87.5°	3.8	4.3	4.3	4.7
90°	5.6	4.0	2.3	0.7
92.5°	15.0	15.6	16.2	16.8
95°	28.9	33.8	38.8	43.7
97.5°	41.9	54.1	66.4	78.6
100°	57.6	78.0	98.5	118.9
102.5°	162.3	162.6	162.9	163.2
105°	217.6	213.1	208.7	204.2
107.5°	263.1	259.4	255.6	251.9
110°	307.0	303.9	300.7	297.6

TEST NUMBER: P998271

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	348.6	345.9	343.2	340.5
115°	393.8	391.3	388.7	386.2
117.5°	434.8	431.8	428.8	425.8
120°	476.9	474.7	472.4	470.2
122.5°	514.9	512.6	510.2	507.8
125°	551.9	550.0	548.0	546.1
127.5°	587.3	585.2	583.1	581.0
130°	621.1	618.7	616.3	613.9
132.5°	653.3	651.4	649.4	647.5
135°	682.9	680.5	678.1	675.7
137.5°	710.6	708.9	707.1	705.3
140°	737.7	736.6	735.4	734.2
142.5°	761.4	760.4	759.3	758.3
145°	783.4	783.6	783.7	783.9
147.5°	804.7	805.1	805.6	806.0
150°	824.4	825.4	826.5	827.5
152.5°	842.1	843.3	844.5	845.7
155°	859.1	860.4	861.8	863.1
157.5°	873.6	874.8	876.0	877.2
160°	886.6	887.5	888.4	889.3
162.5°	897.4	898.3	899.2	900.1
165°	906.8	907.7	908.6	909.5
167.5°	914.2	915.1	916.0	916.9
170°	920.2	921.1	922.0	922.9
172.5°	924.2	925.1	926.0	926.9
175°	927.2	928.2	929.3	930.3
177.5°	928.5	929.5	930.6	931.6
180°	928.3	928.3	928.3	928.3

TEST NUMBER: P998271

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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	11.29	11.98	12.40	13.08	14.60	8.78	9.47	9.89	10.58	12.10
	3H	12.09	12.71	13.20	13.82	15.36	10.11	10.73	11.23	11.84	13.38
	4H	12.25	12.84	13.38	13.95	15.49	10.57	11.16	11.70	12.27	13.81
	6H	12.28	12.83	13.42	13.94	15.49	10.87	11.41	12.00	12.52	14.08
	8H	12.26	12.77	13.40	13.90	15.45	10.94	11.46	12.08	12.59	14.14
	12H	12.22	12.70	13.36	13.83	15.40	10.98	11.47	12.13	12.59	14.16
4H	2H	11.31	11.90	12.44	13.01	14.55	9.21	9.80	10.34	10.91	12.45
	3H	12.27	12.76	13.41	13.90	15.46	10.65	11.14	11.79	12.28	13.84
	4H	12.54	13.00	13.69	14.12	15.70	11.18	11.63	12.32	12.76	14.33
	6H	12.67	13.05	13.82	14.20	15.77	11.55	11.94	12.70	13.09	14.65
	8H	12.66	13.02	13.81	14.16	15.74	11.66	12.02	12.81	13.16	14.74
	12H	12.62	12.94	13.78	14.10	15.68	11.71	12.03	12.87	13.19	14.77
8H	4H	12.54	12.90	13.69	14.04	15.62	11.31	11.67	12.46	12.81	14.39
	6H	12.71	13.01	13.88	14.19	15.77	11.74	12.03	12.91	13.22	14.80
	8H	12.74	13.00	13.92	14.16	15.76	11.89	12.15	13.06	13.31	14.91
	12H	12.72	12.95	13.90	14.11	15.74	11.97	12.20	13.15	13.36	14.99
12H	4H	12.49	12.82	13.66	13.97	15.56	11.28	11.60	12.44	12.75	14.34
	6H	12.69	12.95	13.87	14.11	15.71	11.74	12.00	12.91	13.16	14.76
	8H	12.72	12.94	13.89	14.10	15.74	11.89	12.11	13.07	13.27	14.91