

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P333125-830

Luminaire Tested: **S125DIP-S375D590U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333125-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S375D590U830-4F0-1E-UDD-A1  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 375 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3377.5 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse

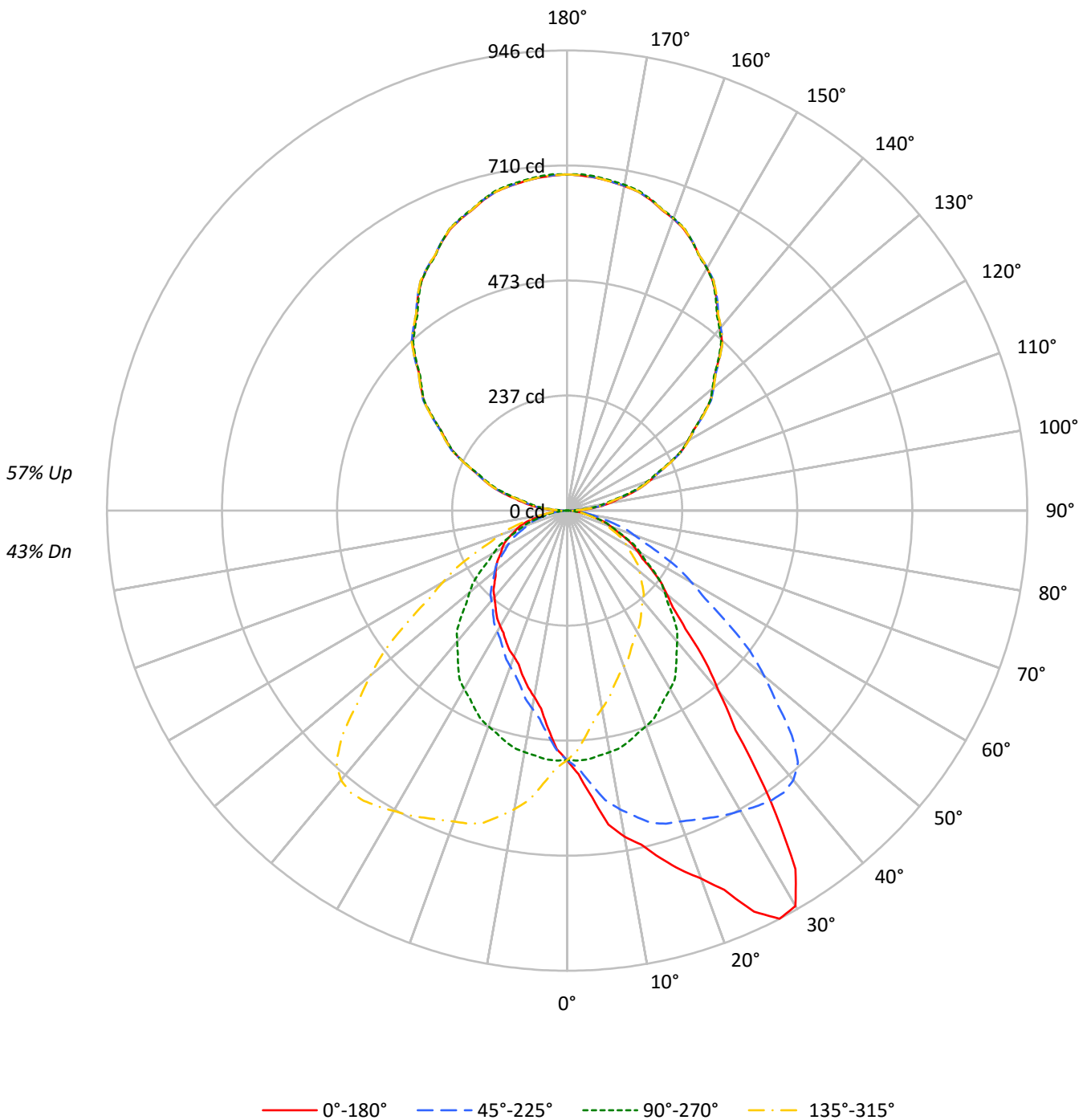
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	68	66	56	55	54	44	43	42	37
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13	11

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

	0°	90°	180°	270°
0°	3314	3314	3314	3314
5°	3837	3325	2912	3325
10°	4465	3308	2551	3308
15°	4942	3284	2353	3284
20°	5532	3245	2194	3245
25°	6481	3202	2117	3202
30°	7000	3159	2049	3159
35°	5755	3079	2006	3079
40°	4091	2967	1957	2967
45°	3143	2817	1929	2817
50°	2683	2629	1925	2629
55°	2389	2448	1942	2448
60°	2155	2248	1992	2248
65°	1991	2046	2043	2046
70°	1811	1839	2073	1839
75°	1597	1619	2054	1619
80°	1346	1320	1878	1320
85°	1067	948	1519	948



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	1.5
10°-20°	147.1	4.4
20°-30°	238.8	7.1
30°-40°	291.3	8.6
40°-50°	265.0	7.8
50°-60°	211.1	6.3
60°-70°	147.0	4.4
70°-80°	78.4	2.3
80°-90°	21.3	0.6
90°-100°	46.3	1.4
100°-110°	136.7	4.0
110°-120°	231.5	6.9
120°-130°	304.6	9.0
130°-140°	341.3	10.1
140°-150°	334.5	9.9
150°-160°	281.0	8.3
160°-170°	186.8	5.5
170°-180°	65.4	1.9
0°-30°	435.3	12.9
0°-40°	726.6	21.5
0°-60°	1202.7	35.6
0°-90°	1449.4	42.9
90°-120°	414.4	12.3
90°-150°	1394.9	41.3
90°-180°	1928.0	57.1
0°-180°	3377.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	513	513	513	513	513	
5°	592	513	449	513	592	60
15°	739	491	352	491	739	212
25°	910	449	297	449	910	415
35°	730	390	254	390	730	447
45°	344	308	211	308	344	275
55°	212	217	172	217	212	191
65°	130	134	134	134	130	129
75°	64	65	82	65	64	69
85°	14	13	20	13	14	17
90°	13	1	13	1	13	8
95°	46	35	46	35	46	47
105°	133	123	133	123	133	141
115°	234	232	234	232	234	231
125°	340	338	340	338	340	304
135°	442	440	442	440	442	341
145°	535	533	535	533	535	334
155°	610	610	610	610	610	281
165°	661	663	661	663	661	186
175°	687	689	687	689	687	65
180°	691	691	691	691	691	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	542.7	542.1	541.3	540.0	541.0	538.0	536.7	534.2	531.2	530.2	529.0
5°	591.9	593.0	594.2	589.6	590.0	586.9	579.9	574.3	569.8	563.8	559.7
7.5°	651.2	648.7	648.4	645.5	640.4	636.2	629.0	619.6	610.6	600.3	591.8
10°	680.8	681.1	679.1	675.6	670.1	666.2	656.7	647.5	636.4	623.3	614.0
12.5°	703.1	704.1	701.5	696.8	694.2	685.4	677.9	667.0	653.8	643.4	629.1
15°	739.1	736.8	735.1	729.2	724.6	715.5	703.5	692.1	677.8	664.5	651.2
17.5°	773.9	775.9	772.6	767.2	753.0	742.3	726.3	710.8	692.9	675.0	659.2
20°	804.9	806.7	801.7	792.3	775.3	764.7	743.6	723.5	702.9	680.0	662.5
22.5°	843.7	842.3	835.5	821.2	806.5	786.8	763.9	739.5	713.6	687.8	664.6
25°	909.5	900.3	896.2	878.5	859.2	830.2	798.9	763.2	730.9	696.7	667.1
27.5°	946.0	943.1	938.5	926.2	905.9	874.9	837.9	794.4	748.9	705.8	666.9
30°	938.7	939.1	939.5	935.7	922.6	899.3	862.4	815.7	761.6	713.0	668.2
32.5°	873.8	881.7	889.4	898.3	902.0	897.5	874.5	832.2	776.6	721.4	667.5
35°	730.0	732.4	757.1	781.5	814.5	840.3	857.4	838.7	791.9	728.5	666.7
37.5°	569.2	581.0	598.0	625.6	673.4	716.1	771.2	796.4	781.4	730.8	665.2
40°	485.2	496.2	507.3	535.4	575.6	627.5	689.9	743.3	755.7	723.5	659.9
42.5°	420.5	429.0	441.4	462.5	496.2	542.1	601.8	671.6	714.4	702.3	648.9
45°	344.1	349.6	359.1	375.9	400.3	436.2	488.9	565.1	631.6	653.6	622.9
47.5°	294.5	294.5	302.0	313.5	331.1	361.7	400.7	460.3	531.3	583.8	581.4
50°	267.0	265.9	271.8	281.8	295.8	316.0	353.3	401.0	469.1	528.6	545.2
52.5°	243.3	243.5	247.0	254.5	266.2	283.4	311.2	354.3	412.5	473.5	504.7
55°	212.2	211.2	215.4	220.4	228.9	240.3	260.2	293.1	340.4	400.5	441.0
57.5°	183.5	186.0	187.6	191.1	198.1	205.8	222.6	246.8	284.3	335.8	378.6
60°	166.8	169.2	170.5	174.0	179.6	186.2	199.3	218.9	250.4	294.9	337.3
62.5°	151.8	153.7	154.2	157.3	161.9	168.2	178.5	195.0	220.0	258.8	300.4
65°	130.3	130.3	131.1	134.4	136.6	142.2	150.1	162.0	182.1	212.4	247.9
67.5°	109.4	110.5	110.3	111.7	113.7	118.1	123.7	133.6	148.5	170.5	199.0
70°	95.9	96.7	96.5	97.6	99.7	102.5	107.2	116.5	127.1	146.1	170.5
72.5°	83.6	84.0	83.4	84.8	86.1	88.6	93.8	98.8	108.7	124.7	144.8
75°	64.0	64.5	64.9	65.8	67.1	68.4	71.0	76.0	82.6	94.5	107.4
77.5°	48.0	47.1	48.3	48.1	48.8	49.9	52.1	54.8	60.1	67.8	77.7
80°	36.2	36.4	36.4	36.6	37.7	38.4	40.2	42.2	46.4	52.0	59.0
82.5°	26.4	27.0	26.6	27.1	27.9	28.4	29.5	31.1	33.5	38.0	43.0
85°	14.4	13.3	13.8	14.1	14.1	14.4	15.3	15.9	17.2	18.9	20.9
87.5°	6.8	7.1	7.2	7.1	7.2	7.1	7.6	7.5	7.9	8.3	8.9
90°	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8	9.2	8.6	7.7
92.5°	25.4	25.1	24.9	24.6	24.3	23.8	23.0	22.2	21.4	20.6	19.6
95°	46.3	46.0	45.8	45.5	45.2	44.8	43.9	43.1	42.2	41.4	40.2
97.5°	70.1	69.9	69.8	69.7	69.6	69.1	68.3	67.5	66.7	65.9	64.3
100°	88.2	87.9	87.8	87.5	87.2	86.5	85.5	84.5	83.3	82.3	80.7
102.5°	106.2	105.9	105.6	105.3	104.9	104.2	103.0	101.8	100.7	99.4	98.7
105°	133.4	133.0	132.6	132.2	132.0	131.4	130.6	130.0	129.2	128.5	127.8
107.5°	161.1	161.1	161.2	161.2	161.2	161.0	160.7	160.3	159.9	159.6	159.0
110°	181.7	181.8	182.0	182.1	182.2	182.1	181.7	181.3	181.1	180.7	180.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	202.0	202.2	202.4	202.6	202.8	202.8	202.6	202.6	202.4	202.2	201.7
115°	233.9	234.0	234.1	234.2	234.4	234.5	234.6	234.7	234.9	235.0	234.7
117.5°	265.0	265.6	266.1	266.6	267.0	267.2	267.1	267.0	266.9	266.8	266.6
120°	286.6	287.1	287.6	288.0	288.5	288.7	288.7	288.7	288.7	288.7	288.6
122.5°	308.1	308.5	308.9	309.2	309.6	309.9	310.0	310.1	310.2	310.3	309.9
125°	340.4	340.4	340.6	340.7	340.8	341.0	341.3	341.5	341.8	342.0	341.9
127.5°	371.4	371.6	371.8	372.0	372.3	372.5	372.6	372.7	372.9	373.0	372.8
130°	392.0	392.2	392.5	392.7	392.9	393.1	393.2	393.3	393.5	393.6	393.3
132.5°	411.3	411.7	412.0	412.4	412.6	412.9	413.0	413.1	413.3	413.4	413.4
135°	441.5	442.0	442.4	442.9	443.4	443.6	443.6	443.6	443.6	443.6	443.5
137.5°	470.9	471.6	472.1	472.7	473.3	473.5	473.3	473.3	473.1	473.0	472.7
140°	489.8	490.4	491.1	491.6	492.2	492.4	492.2	491.9	491.7	491.4	491.1
142.5°	507.9	508.5	509.1	509.7	510.3	510.5	510.4	510.2	510.1	509.9	509.5
145°	535.0	535.4	535.7	536.1	536.4	536.6	536.6	536.6	536.6	536.6	536.3
147.5°	558.2	558.9	559.8	560.5	561.4	561.7	561.4	561.1	560.8	560.5	560.2
150°	575.3	575.6	575.8	576.1	576.3	576.4	576.4	576.4	576.4	576.4	575.9
152.5°	589.6	589.9	590.4	590.8	591.3	591.4	591.1	590.8	590.5	590.2	589.9
155°	609.7	610.3	611.0	611.5	612.2	612.2	611.7	611.2	610.8	610.3	610.2
157.5°	626.6	627.5	628.2	629.0	629.8	629.9	629.4	629.0	628.5	628.0	627.9
160°	638.3	638.9	639.4	640.1	640.6	640.6	640.2	639.7	639.2	638.8	638.7
162.5°	648.1	648.8	649.5	650.3	650.9	651.0	650.4	649.8	649.2	648.7	648.7
165°	661.4	662.0	662.8	663.5	664.2	664.4	663.8	663.4	662.9	662.4	662.3
167.5°	671.9	672.6	673.4	674.1	674.9	674.9	674.2	673.4	672.7	672.0	672.0
170°	677.5	678.3	679.2	680.0	680.8	680.9	680.1	679.5	678.7	678.1	678.1
172.5°	682.2	683.0	683.7	684.5	685.2	685.2	684.5	683.8	683.1	682.3	682.3
175°	686.6	687.5	688.3	689.2	689.9	690.0	689.3	688.6	687.9	687.2	687.2
177.5°	689.2	689.8	690.6	691.3	691.9	691.9	691.4	690.8	690.2	689.7	689.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	527.9	526.7	525.3	522.8	519.9	518.3	515.9	514.3	511.2	508.6	505.8
5°	554.7	549.0	543.8	537.1	529.7	524.9	519.2	512.9	506.3	499.6	492.2
7.5°	582.5	572.4	561.6	549.9	538.4	527.8	517.7	507.9	498.7	487.5	478.1
10°	601.1	588.4	575.0	559.1	543.6	530.1	516.4	504.4	492.2	479.2	467.6
12.5°	619.7	602.9	583.8	566.4	547.8	531.5	515.4	500.0	484.7	470.2	456.8
15°	632.9	618.1	600.5	575.6	554.7	532.3	511.0	491.2	472.6	456.5	439.5
17.5°	641.6	622.5	603.5	579.8	552.3	527.3	503.0	480.3	459.5	439.0	422.7
20°	643.1	623.5	603.7	580.4	552.3	523.6	499.4	472.2	449.8	428.6	408.6
22.5°	642.6	620.4	598.8	574.9	547.4	520.9	491.7	464.0	439.6	418.9	397.9
25°	637.7	614.0	586.9	562.8	535.7	507.7	478.1	449.3	424.5	400.8	380.0
27.5°	633.6	602.9	572.2	544.0	517.9	492.2	463.8	434.4	406.9	382.9	363.4
30°	628.6	594.7	560.3	530.9	504.2	479.2	452.3	423.6	394.8	371.4	350.4
32.5°	624.1	584.7	548.4	516.3	488.0	463.6	438.9	411.6	383.3	359.5	338.6
35°	615.3	569.8	528.1	492.0	461.8	436.7	415.9	390.5	364.6	341.5	321.5
37.5°	604.2	550.2	505.5	467.6	434.4	408.0	388.8	369.2	344.3	322.1	304.0
40°	595.4	536.2	488.9	450.2	415.8	388.3	370.4	351.9	331.3	310.6	291.4
42.5°	584.5	523.7	472.2	430.5	396.4	369.7	350.9	335.3	317.0	297.7	279.9
45°	564.3	501.0	445.2	400.3	365.9	339.5	320.2	308.4	294.6	276.4	261.4
47.5°	534.6	473.6	415.9	369.7	334.1	309.7	291.5	280.2	270.6	257.0	243.4
50°	508.3	453.3	394.8	348.9	313.4	288.8	272.0	261.7	253.5	243.1	231.5
52.5°	478.9	427.6	374.1	328.7	293.5	269.3	252.9	243.8	237.0	229.5	218.1
55°	432.1	388.5	338.8	295.8	263.3	239.6	225.2	217.4	211.7	206.0	199.1
57.5°	380.6	346.5	302.6	263.1	233.2	211.6	198.2	190.6	186.2	183.2	179.2
60°	344.3	315.2	277.3	241.3	212.2	192.9	179.9	174.0	170.3	168.0	164.9
62.5°	310.7	286.7	251.7	218.9	193.3	175.2	163.5	157.8	154.3	153.1	150.6
65°	261.2	242.6	213.7	186.4	164.7	149.2	139.4	133.9	131.8	130.4	130.6
67.5°	212.3	201.0	177.8	154.6	137.1	124.2	116.3	112.2	111.0	109.3	109.3
70°	182.5	174.0	154.4	134.1	118.7	108.7	101.7	97.4	96.2	95.4	95.2
72.5°	156.2	148.7	131.8	115.6	101.6	92.8	87.1	84.5	82.7	82.2	82.1
75°	117.3	113.3	99.7	86.9	77.3	71.3	67.3	64.9	63.6	63.3	63.6
77.5°	83.4	79.8	71.3	62.1	56.1	51.5	48.2	47.3	45.9	45.9	45.7
80°	62.7	60.3	54.9	47.7	42.7	38.7	37.0	35.5	35.1	34.4	35.1
82.5°	45.4	42.9	39.2	34.6	30.4	28.2	26.4	25.9	25.6	25.4	25.4
85°	22.4	22.6	20.5	17.0	15.3	13.9	12.8	12.8	12.6	12.4	12.6
87.5°	9.0	8.6	7.6	7.0	5.9	5.2	4.8	4.8	4.5	4.5	4.9
90°	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6	1.5	2.5	3.4
92.5°	18.6	17.5	16.5	15.6	15.0	14.3	13.7	13.0	13.7	14.3	15.0
95°	39.0	37.8	36.7	35.9	35.6	35.4	35.2	35.0	35.2	35.4	35.6
97.5°	62.6	61.0	59.3	58.4	58.3	58.2	58.2	58.1	58.2	58.2	58.3
100°	79.2	77.6	76.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
102.5°	97.9	97.1	96.3	95.7	95.2	94.7	94.3	93.8	94.3	94.7	95.2
105°	127.1	126.4	125.6	125.0	124.4	123.8	123.2	122.6	123.2	123.8	124.4
107.5°	158.4	158.0	157.4	156.8	156.2	155.6	155.0	154.4	155.0	155.6	156.2
110°	179.9	179.6	179.3	178.8	178.1	177.6	176.9	176.3	176.9	177.6	178.1





TEST NUMBER: P333125-830

CATALOG NUMBER: S125DIP-S375D590U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.2	200.9	200.4	200.0	199.6	199.3	199.1	198.7	199.1	199.3	199.6
115°	234.5	234.2	234.0	233.7	233.2	232.7	232.2	231.8	232.2	232.7	233.2
117.5°	266.4	266.2	266.0	265.7	265.5	265.3	265.0	264.9	265.0	265.3	265.5
120°	288.5	288.4	288.2	287.9	287.3	286.7	286.2	285.5	286.2	286.7	287.3
122.5°	309.6	309.3	309.0	308.8	308.5	308.3	308.1	307.9	308.1	308.3	308.5
125°	341.8	341.6	341.5	341.1	340.4	339.6	338.9	338.2	338.9	339.6	340.4
127.5°	372.7	372.5	372.4	372.1	371.6	371.3	370.9	370.5	370.9	371.3	371.6
130°	393.1	392.9	392.7	392.2	391.6	391.1	390.4	389.8	390.4	391.1	391.6
132.5°	413.5	413.5	413.6	413.1	412.1	411.1	410.2	409.2	410.2	411.1	412.1
135°	443.4	443.3	443.1	442.7	442.0	441.3	440.5	439.8	440.5	441.3	442.0
137.5°	472.4	472.2	471.9	471.5	470.7	470.0	469.4	468.6	469.4	470.0	470.7
140°	490.8	490.4	490.0	489.6	488.9	488.3	487.8	487.1	487.8	488.3	488.9
142.5°	509.1	508.6	508.1	507.7	507.2	506.6	506.1	505.7	506.1	506.6	507.2
145°	535.9	535.6	535.2	534.8	534.3	533.9	533.3	532.8	533.3	533.9	534.3
147.5°	560.0	559.6	559.3	559.1	558.8	558.6	558.3	558.0	558.3	558.6	558.8
150°	575.4	575.0	574.5	574.3	574.5	574.6	574.7	574.8	574.7	574.6	574.5
152.5°	589.7	589.6	589.4	589.2	589.1	588.9	588.7	588.5	588.7	588.9	589.1
155°	610.0	609.9	609.8	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
157.5°	627.8	627.6	627.5	627.6	627.9	628.1	628.4	628.7	628.4	628.1	627.9
160°	638.6	638.4	638.3	638.4	638.8	639.1	639.5	639.9	639.5	639.1	638.8
162.5°	648.7	648.6	648.6	648.7	648.9	649.2	649.5	649.8	649.5	649.2	648.9
165°	662.2	662.0	661.9	662.0	662.2	662.5	662.7	663.0	662.7	662.5	662.2
167.5°	672.0	672.0	672.0	672.2	672.7	673.2	673.7	674.2	673.7	673.2	672.7
170°	678.1	678.1	678.1	678.3	678.7	679.2	679.7	680.1	679.7	679.2	678.7
172.5°	682.3	682.3	682.3	682.6	683.1	683.5	684.0	684.5	684.0	683.5	683.1
175°	687.2	687.2	687.2	687.4	687.9	688.3	688.8	689.3	688.8	688.3	687.9
177.5°	689.8	689.9	690.0	690.2	690.7	691.1	691.4	691.8	691.4	691.1	690.7
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333125-830

CATALOG NUMBER: S125DIP-S375D590U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	504.3	502.3	500.8	497.3	495.3	492.8	490.7	492.9	490.5	491.5	489.9
5°	488.5	482.4	478.1	471.7	466.3	461.3	457.6	456.9	455.2	454.3	451.7
7.5°	469.6	461.9	454.5	446.2	439.2	432.2	427.6	423.9	421.4	418.1	415.8
10°	458.5	448.2	439.5	429.5	420.8	413.1	407.1	404.0	401.1	397.0	395.5
12.5°	444.7	434.1	423.5	412.7	404.4	395.9	390.7	386.1	384.1	379.5	379.0
15°	428.2	412.3	401.8	391.0	379.4	372.4	368.1	363.1	360.9	357.6	355.2
17.5°	408.5	394.3	381.3	369.9	360.1	354.2	348.7	345.3	341.6	339.4	335.5
20°	394.2	380.7	367.6	355.6	348.0	341.3	337.0	333.7	329.7	328.7	324.7
22.5°	382.2	367.3	354.8	344.7	336.4	328.8	324.0	321.8	319.1	315.8	315.0
25°	362.6	347.1	336.5	326.5	319.1	312.1	308.9	306.0	303.4	301.0	300.1
27.5°	345.7	331.9	319.2	310.2	303.7	297.4	294.5	291.1	289.2	287.2	284.8
30°	333.8	319.7	308.6	299.9	292.9	287.3	284.2	281.8	280.1	278.3	277.0
32.5°	321.7	308.6	297.8	289.3	282.3	278.1	275.3	273.6	271.7	269.7	268.0
35°	305.6	291.2	280.7	273.3	267.9	264.6	261.6	260.0	257.9	257.9	256.1
37.5°	287.4	274.9	265.7	259.0	254.1	251.2	247.9	246.9	245.4	244.5	243.9
40°	276.6	265.0	256.4	249.6	244.4	242.0	239.3	237.6	236.8	235.6	235.3
42.5°	265.4	254.4	246.1	239.9	235.3	233.3	230.8	229.6	227.8	226.4	226.1
45°	248.5	237.8	230.2	225.2	221.3	218.9	217.4	214.7	213.9	212.2	211.9
47.5°	232.4	222.2	214.7	210.6	207.2	205.2	202.8	200.2	199.2	198.3	198.2
50°	220.4	211.0	204.1	200.2	196.9	194.1	191.6	189.9	189.3	189.3	189.7
52.5°	208.2	200.2	194.4	189.5	186.4	183.4	181.2	180.1	179.2	180.2	181.0
55°	190.4	182.3	178.0	173.3	170.3	166.8	165.7	165.3	164.7	166.4	167.3
57.5°	171.4	165.8	160.7	156.2	153.4	151.4	150.0	149.7	150.9	151.7	154.6
60°	159.4	152.9	148.4	144.9	141.6	140.3	139.8	139.4	140.3	142.6	146.4
62.5°	146.2	140.9	135.9	133.4	130.9	128.8	128.7	128.9	130.6	133.5	137.1
65°	126.8	122.2	118.9	115.8	113.9	112.6	113.0	113.9	115.8	119.6	123.7
67.5°	107.0	103.9	100.9	98.5	96.6	96.6	97.1	98.4	100.7	104.9	108.7
70°	94.3	90.9	88.4	87.4	85.8	84.9	86.2	88.4	90.4	94.3	97.6
72.5°	81.6	78.6	76.7	76.0	75.3	74.6	75.1	77.5	80.1	84.0	87.8
75°	62.7	61.6	60.3	59.5	58.8	59.3	59.7	61.8	64.0	68.1	72.5
77.5°	45.8	44.7	43.8	43.6	43.3	43.5	44.8	46.4	48.4	51.5	54.8
80°	34.6	34.2	33.7	33.6	33.6	33.7	35.5	36.6	38.5	41.4	44.0
82.5°	25.3	25.0	24.9	24.8	25.0	25.1	26.1	27.5	29.1	31.3	33.6
85°	13.3	12.8	13.5	13.8	13.3	13.9	14.4	15.3	15.9	17.0	18.1
87.5°	5.2	5.7	5.7	6.1	6.2	6.8	6.7	7.5	8.0	8.5	8.4
90°	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8	10.4	11.0	11.5
92.5°	15.6	16.5	17.5	18.6	19.6	20.6	21.4	22.2	23.0	23.8	24.3
95°	35.9	36.7	37.8	39.0	40.2	41.4	42.2	43.1	43.9	44.8	45.2
97.5°	58.4	59.3	61.0	62.6	64.3	65.9	66.7	67.5	68.3	69.1	69.6
100°	75.3	76.1	77.6	79.2	80.7	82.3	83.3	84.5	85.5	86.5	87.2
102.5°	95.7	96.3	97.1	97.9	98.7	99.4	100.7	101.8	103.0	104.2	104.9
105°	125.0	125.6	126.4	127.1	127.8	128.5	129.2	130.0	130.6	131.4	132.0
107.5°	156.8	157.4	158.0	158.4	159.0	159.6	159.9	160.3	160.7	161.0	161.2
110°	178.8	179.3	179.6	179.9	180.3	180.7	181.1	181.3	181.7	182.1	182.2



TEST NUMBER: P333125-830

CATALOG NUMBER: S125DIP-S375D590U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.0	200.4	200.9	201.2	201.7	202.2	202.4	202.6	202.6	202.8	202.8
115°	233.7	234.0	234.2	234.5	234.7	235.0	234.9	234.7	234.6	234.5	234.4
117.5°	265.7	266.0	266.2	266.4	266.6	266.8	266.9	267.0	267.1	267.2	267.0
120°	287.9	288.2	288.4	288.5	288.6	288.7	288.7	288.7	288.7	288.7	288.5
122.5°	308.8	309.0	309.3	309.6	309.9	310.3	310.2	310.1	310.0	309.9	309.6
125°	341.1	341.5	341.6	341.8	341.9	342.0	341.8	341.5	341.3	341.0	340.8
127.5°	372.1	372.4	372.5	372.7	372.8	373.0	372.9	372.7	372.6	372.5	372.3
130°	392.2	392.7	392.9	393.1	393.3	393.6	393.5	393.3	393.2	393.1	392.9
132.5°	413.1	413.6	413.5	413.5	413.4	413.4	413.3	413.1	413.0	412.9	412.6
135°	442.7	443.1	443.3	443.4	443.5	443.6	443.6	443.6	443.6	443.6	443.4
137.5°	471.5	471.9	472.2	472.4	472.7	473.0	473.1	473.3	473.3	473.5	473.3
140°	489.6	490.0	490.4	490.8	491.1	491.4	491.7	491.9	492.2	492.4	492.2
142.5°	507.7	508.1	508.6	509.1	509.5	509.9	510.1	510.2	510.4	510.5	510.3
145°	534.8	535.2	535.6	535.9	536.3	536.6	536.6	536.6	536.6	536.6	536.4
147.5°	559.1	559.3	559.6	560.0	560.2	560.5	560.8	561.1	561.4	561.7	561.4
150°	574.3	574.5	575.0	575.4	575.9	576.4	576.4	576.4	576.4	576.4	576.3
152.5°	589.2	589.4	589.6	589.7	589.9	590.2	590.5	590.8	591.1	591.4	591.3
155°	609.7	609.8	609.9	610.0	610.2	610.3	610.8	611.2	611.7	612.2	612.2
157.5°	627.6	627.5	627.6	627.8	627.9	628.0	628.5	629.0	629.4	629.9	629.8
160°	638.4	638.3	638.4	638.6	638.7	638.8	639.2	639.7	640.2	640.6	640.6
162.5°	648.7	648.6	648.6	648.7	648.7	648.7	649.2	649.8	650.4	651.0	650.9
165°	662.0	661.9	662.0	662.2	662.3	662.4	662.9	663.4	663.8	664.4	664.2
167.5°	672.2	672.0	672.0	672.0	672.0	672.0	672.7	673.4	674.2	674.9	674.9
170°	678.3	678.1	678.1	678.1	678.1	678.1	678.7	679.5	680.1	680.9	680.8
172.5°	682.6	682.3	682.3	682.3	682.3	682.3	683.1	683.8	684.5	685.2	685.2
175°	687.4	687.2	687.2	687.2	687.2	687.2	687.9	688.6	689.3	690.0	689.9
177.5°	690.2	690.0	689.9	689.8	689.8	689.7	690.2	690.8	691.4	691.9	691.9
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333125-830

CATALOG NUMBER: S125DIP-S375D590U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	488.9	490.1	489.1	490.5	489.1	490.1	488.9	489.9	491.5	490.5	492.9
5°	450.6	448.7	450.0	449.1	450.0	448.7	450.6	451.7	454.3	455.2	456.9
7.5°	415.3	413.4	411.2	410.2	411.2	413.4	415.3	415.8	418.1	421.4	423.9
10°	393.1	390.7	390.5	389.0	390.5	390.7	393.1	395.5	397.0	401.1	404.0
12.5°	376.9	374.7	372.2	371.6	372.2	374.7	376.9	379.0	379.5	384.1	386.1
15°	353.9	352.1	350.6	351.9	350.6	352.1	353.9	355.2	357.6	360.9	363.1
17.5°	334.8	333.4	333.1	331.5	333.1	333.4	334.8	335.5	339.4	341.6	345.3
20°	322.7	321.7	322.2	319.2	322.2	321.7	322.7	324.7	328.7	329.7	333.7
22.5°	313.2	311.0	310.8	310.2	310.8	311.0	313.2	315.0	315.8	319.1	321.8
25°	298.1	297.1	296.0	297.1	296.0	297.1	298.1	300.1	301.0	303.4	306.0
27.5°	285.0	283.7	283.4	283.6	283.4	283.7	285.0	284.8	287.2	289.2	291.1
30°	277.0	274.8	275.0	274.8	275.0	274.8	277.0	277.0	278.3	280.1	281.8
32.5°	268.3	266.8	266.6	266.2	266.6	266.8	268.3	268.0	269.7	271.7	273.6
35°	255.4	255.4	254.4	254.4	254.4	255.4	255.4	256.1	257.9	257.9	260.0
37.5°	243.4	243.2	242.5	242.6	242.5	243.2	243.4	243.9	244.5	245.4	246.9
40°	234.3	234.1	233.5	232.1	233.5	234.1	234.3	235.3	235.6	236.8	237.6
42.5°	225.6	224.9	224.6	224.1	224.6	224.9	225.6	226.1	226.4	227.8	229.6
45°	211.9	211.9	211.5	211.2	211.5	211.9	211.9	211.9	212.2	213.9	214.7
47.5°	198.6	199.0	199.8	199.6	199.8	199.0	198.6	198.2	198.3	199.2	200.2
50°	190.6	190.8	191.4	191.6	191.4	190.8	190.6	189.7	189.3	189.3	189.9
52.5°	181.7	182.9	183.8	183.6	183.8	182.9	181.7	181.0	180.2	179.2	180.1
55°	169.2	170.8	172.3	172.5	172.3	170.8	169.2	167.3	166.4	164.7	165.3
57.5°	156.9	159.0	160.6	161.2	160.6	159.0	156.9	154.6	151.7	150.9	149.7
60°	148.5	151.4	153.4	154.2	153.4	151.4	148.5	146.4	142.6	140.3	139.4
62.5°	140.5	143.7	145.6	145.8	145.6	143.7	140.5	137.1	133.5	130.6	128.9
65°	127.4	130.6	132.4	133.7	132.4	130.6	127.4	123.7	119.6	115.8	113.9
67.5°	113.3	116.6	118.5	119.5	118.5	116.6	113.3	108.7	104.9	100.7	98.4
70°	103.0	106.3	108.9	109.8	108.9	106.3	103.0	97.6	94.3	90.4	88.4
72.5°	92.9	95.9	97.9	99.0	97.9	95.9	92.9	87.8	84.0	80.1	77.5
75°	75.3	79.3	81.2	82.3	81.2	79.3	75.3	72.5	68.1	64.0	61.8
77.5°	58.1	61.6	62.9	63.4	62.9	61.6	58.1	54.8	51.5	48.4	46.4
80°	46.6	48.8	50.3	50.5	50.3	48.8	46.6	44.0	41.4	38.5	36.6
82.5°	35.8	37.6	38.1	38.6	38.1	37.6	35.8	33.6	31.3	29.1	27.5
85°	19.6	20.5	20.7	20.5	20.7	20.5	19.6	18.1	17.0	15.9	15.3
87.5°	8.8	8.7	8.8	9.2	8.8	8.7	8.8	8.4	8.5	8.0	7.5
90°	11.9	12.2	12.5	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8
92.5°	24.6	24.9	25.1	25.4	25.1	24.9	24.6	24.3	23.8	23.0	22.2
95°	45.5	45.8	46.0	46.3	46.0	45.8	45.5	45.2	44.8	43.9	43.1
97.5°	69.7	69.8	69.9	70.1	69.9	69.8	69.7	69.6	69.1	68.3	67.5
100°	87.5	87.8	87.9	88.2	87.9	87.8	87.5	87.2	86.5	85.5	84.5
102.5°	105.3	105.6	105.9	106.2	105.9	105.6	105.3	104.9	104.2	103.0	101.8
105°	132.2	132.6	133.0	133.4	133.0	132.6	132.2	132.0	131.4	130.6	130.0
107.5°	161.2	161.2	161.1	161.1	161.1	161.2	161.2	161.2	161.0	160.7	160.3
110°	182.1	182.0	181.8	181.7	181.8	182.0	182.1	182.2	182.1	181.7	181.3



TEST NUMBER: P333125-830

CATALOG NUMBER: S125DIP-S375D590U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	202.6	202.4	202.2	202.0	202.2	202.4	202.6	202.8	202.8	202.6	202.6
115°	234.2	234.1	234.0	233.9	234.0	234.1	234.2	234.4	234.5	234.6	234.7
117.5°	266.6	266.1	265.6	265.0	265.6	266.1	266.6	267.0	267.2	267.1	267.0
120°	288.0	287.6	287.1	286.6	287.1	287.6	288.0	288.5	288.7	288.7	288.7
122.5°	309.2	308.9	308.5	308.1	308.5	308.9	309.2	309.6	309.9	310.0	310.1
125°	340.7	340.6	340.4	340.4	340.4	340.6	340.7	340.8	341.0	341.3	341.5
127.5°	372.0	371.8	371.6	371.4	371.6	371.8	372.0	372.3	372.5	372.6	372.7
130°	392.7	392.5	392.2	392.0	392.2	392.5	392.7	392.9	393.1	393.2	393.3
132.5°	412.4	412.0	411.7	411.3	411.7	412.0	412.4	412.6	412.9	413.0	413.1
135°	442.9	442.4	442.0	441.5	442.0	442.4	442.9	443.4	443.6	443.6	443.6
137.5°	472.7	472.1	471.6	470.9	471.6	472.1	472.7	473.3	473.5	473.3	473.3
140°	491.6	491.1	490.4	489.8	490.4	491.1	491.6	492.2	492.4	492.2	491.9
142.5°	509.7	509.1	508.5	507.9	508.5	509.1	509.7	510.3	510.5	510.4	510.2
145°	536.1	535.7	535.4	535.0	535.4	535.7	536.1	536.4	536.6	536.6	536.6
147.5°	560.5	559.8	558.9	558.2	558.9	559.8	560.5	561.4	561.7	561.4	561.1
150°	576.1	575.8	575.6	575.3	575.6	575.8	576.1	576.3	576.4	576.4	576.4
152.5°	590.8	590.4	589.9	589.6	589.9	590.4	590.8	591.3	591.4	591.1	590.8
155°	611.5	611.0	610.3	609.7	610.3	611.0	611.5	612.2	612.2	611.7	611.2
157.5°	629.0	628.2	627.5	626.6	627.5	628.2	629.0	629.8	629.9	629.4	629.0
160°	640.1	639.4	638.9	638.3	638.9	639.4	640.1	640.6	640.6	640.2	639.7
162.5°	650.3	649.5	648.8	648.1	648.8	649.5	650.3	650.9	651.0	650.4	649.8
165°	663.5	662.8	662.0	661.4	662.0	662.8	663.5	664.2	664.4	663.8	663.4
167.5°	674.1	673.4	672.6	671.9	672.6	673.4	674.1	674.9	674.9	674.2	673.4
170°	680.0	679.2	678.3	677.5	678.3	679.2	680.0	680.8	680.9	680.1	679.5
172.5°	684.5	683.7	683.0	682.2	683.0	683.7	684.5	685.2	685.2	684.5	683.8
175°	689.2	688.3	687.5	686.6	687.5	688.3	689.2	689.9	690.0	689.3	688.6
177.5°	691.3	690.6	689.8	689.2	689.8	690.6	691.3	691.9	691.9	691.4	690.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333125-830

CATALOG NUMBER: S125DIP-S375D590U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	490.7	492.8	495.3	497.3	500.8	502.3	504.3	505.8	508.6	511.2	514.3
5°	457.6	461.3	466.3	471.7	478.1	482.4	488.5	492.2	499.6	506.3	512.9
7.5°	427.6	432.2	439.2	446.2	454.5	461.9	469.6	478.1	487.5	498.7	507.9
10°	407.1	413.1	420.8	429.5	439.5	448.2	458.5	467.6	479.2	492.2	504.4
12.5°	390.7	395.9	404.4	412.7	423.5	434.1	444.7	456.8	470.2	484.7	500.0
15°	368.1	372.4	379.4	391.0	401.8	412.3	428.2	439.5	456.5	472.6	491.2
17.5°	348.7	354.2	360.1	369.9	381.3	394.3	408.5	422.7	439.0	459.5	480.3
20°	337.0	341.3	348.0	355.6	367.6	380.7	394.2	408.6	428.6	449.8	472.2
22.5°	324.0	328.8	336.4	344.7	354.8	367.3	382.2	397.9	418.9	439.6	464.0
25°	308.9	312.1	319.1	326.5	336.5	347.1	362.6	380.0	400.8	424.5	449.3
27.5°	294.5	297.4	303.7	310.2	319.2	331.9	345.7	363.4	382.9	406.9	434.4
30°	284.2	287.3	292.9	299.9	308.6	319.7	333.8	350.4	371.4	394.8	423.6
32.5°	275.3	278.1	282.3	289.3	297.8	308.6	321.7	338.6	359.5	383.3	411.6
35°	261.6	264.6	267.9	273.3	280.7	291.2	305.6	321.5	341.5	364.6	390.5
37.5°	247.9	251.2	254.1	259.0	265.7	274.9	287.4	304.0	322.1	344.3	369.2
40°	239.3	242.0	244.4	249.6	256.4	265.0	276.6	291.4	310.6	331.3	351.9
42.5°	230.8	233.3	235.3	239.9	246.1	254.4	265.4	279.9	297.7	317.0	335.3
45°	217.4	218.9	221.3	225.2	230.2	237.8	248.5	261.4	276.4	294.6	308.4
47.5°	202.8	205.2	207.2	210.6	214.7	222.2	232.4	243.4	257.0	270.6	280.2
50°	191.6	194.1	196.9	200.2	204.1	211.0	220.4	231.5	243.1	253.5	261.7
52.5°	181.2	183.4	186.4	189.5	194.4	200.2	208.2	218.1	229.5	237.0	243.8
55°	165.7	166.8	170.3	173.3	178.0	182.3	190.4	199.1	206.0	211.7	217.4
57.5°	150.0	151.4	153.4	156.2	160.7	165.8	171.4	179.2	183.2	186.2	190.6
60°	139.8	140.3	141.6	144.9	148.4	152.9	159.4	164.9	168.0	170.3	174.0
62.5°	128.7	128.8	130.9	133.4	135.9	140.9	146.2	150.6	153.1	154.3	157.8
65°	113.0	112.6	113.9	115.8	118.9	122.2	126.8	130.6	130.4	131.8	133.9
67.5°	97.1	96.6	96.6	98.5	100.9	103.9	107.0	109.3	109.3	111.0	112.2
70°	86.2	84.9	85.8	87.4	88.4	90.9	94.3	95.2	95.4	96.2	97.4
72.5°	75.1	74.6	75.3	76.0	76.7	78.6	81.6	82.1	82.2	82.7	84.5
75°	59.7	59.3	58.8	59.5	60.3	61.6	62.7	63.6	63.3	63.6	64.9
77.5°	44.8	43.5	43.3	43.6	43.8	44.7	45.8	45.7	45.9	45.9	47.3
80°	35.5	33.7	33.6	33.6	33.7	34.2	34.6	35.1	34.4	35.1	35.5
82.5°	26.1	25.1	25.0	24.8	24.9	25.0	25.3	25.4	25.4	25.6	25.9
85°	14.4	13.9	13.3	13.8	13.5	12.8	13.3	12.6	12.4	12.6	12.8
87.5°	6.7	6.8	6.2	6.1	5.7	5.7	5.2	4.9	4.5	4.5	4.8
90°	9.2	8.6	7.7	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6
92.5°	21.4	20.6	19.6	18.6	17.5	16.5	15.6	15.0	14.3	13.7	13.0
95°	42.2	41.4	40.2	39.0	37.8	36.7	35.9	35.6	35.4	35.2	35.0
97.5°	66.7	65.9	64.3	62.6	61.0	59.3	58.4	58.3	58.2	58.2	58.1
100°	83.3	82.3	80.7	79.2	77.6	76.1	75.3	75.3	75.3	75.3	75.3
102.5°	100.7	99.4	98.7	97.9	97.1	96.3	95.7	95.2	94.7	94.3	93.8
105°	129.2	128.5	127.8	127.1	126.4	125.6	125.0	124.4	123.8	123.2	122.6
107.5°	159.9	159.6	159.0	158.4	158.0	157.4	156.8	156.2	155.6	155.0	154.4
110°	181.1	180.7	180.3	179.9	179.6	179.3	178.8	178.1	177.6	176.9	176.3



TEST NUMBER: P333125-830

CATALOG NUMBER: S125DIP-S375D590U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	202.4	202.2	201.7	201.2	200.9	200.4	200.0	199.6	199.3	199.1	198.7
115°	234.9	235.0	234.7	234.5	234.2	234.0	233.7	233.2	232.7	232.2	231.8
117.5°	266.9	266.8	266.6	266.4	266.2	266.0	265.7	265.5	265.3	265.0	264.9
120°	288.7	288.7	288.6	288.5	288.4	288.2	287.9	287.3	286.7	286.2	285.5
122.5°	310.2	310.3	309.9	309.6	309.3	309.0	308.8	308.5	308.3	308.1	307.9
125°	341.8	342.0	341.9	341.8	341.6	341.5	341.1	340.4	339.6	338.9	338.2
127.5°	372.9	373.0	372.8	372.7	372.5	372.4	372.1	371.6	371.3	370.9	370.5
130°	393.5	393.6	393.3	393.1	392.9	392.7	392.2	391.6	391.1	390.4	389.8
132.5°	413.3	413.4	413.4	413.5	413.5	413.6	413.1	412.1	411.1	410.2	409.2
135°	443.6	443.6	443.5	443.4	443.3	443.1	442.7	442.0	441.3	440.5	439.8
137.5°	473.1	473.0	472.7	472.4	472.2	471.9	471.5	470.7	470.0	469.4	468.6
140°	491.7	491.4	491.1	490.8	490.4	490.0	489.6	488.9	488.3	487.8	487.1
142.5°	510.1	509.9	509.5	509.1	508.6	508.1	507.7	507.2	506.6	506.1	505.7
145°	536.6	536.6	536.3	535.9	535.6	535.2	534.8	534.3	533.9	533.3	532.8
147.5°	560.8	560.5	560.2	560.0	559.6	559.3	559.1	558.8	558.6	558.3	558.0
150°	576.4	576.4	575.9	575.4	575.0	574.5	574.3	574.5	574.6	574.7	574.8
152.5°	590.5	590.2	589.9	589.7	589.6	589.4	589.2	589.1	588.9	588.7	588.5
155°	610.8	610.3	610.2	610.0	609.9	609.8	609.7	609.7	609.7	609.7	609.7
157.5°	628.5	628.0	627.9	627.8	627.6	627.5	627.6	627.9	628.1	628.4	628.7
160°	639.2	638.8	638.7	638.6	638.4	638.3	638.4	638.8	639.1	639.5	639.9
162.5°	649.2	648.7	648.7	648.7	648.6	648.6	648.7	648.9	649.2	649.5	649.8
165°	662.9	662.4	662.3	662.2	662.0	661.9	662.0	662.2	662.5	662.7	663.0
167.5°	672.7	672.0	672.0	672.0	672.0	672.0	672.2	672.7	673.2	673.7	674.2
170°	678.7	678.1	678.1	678.1	678.1	678.1	678.3	678.7	679.2	679.7	680.1
172.5°	683.1	682.3	682.3	682.3	682.3	682.3	682.6	683.1	683.5	684.0	684.5
175°	687.9	687.2	687.2	687.2	687.2	687.2	687.4	687.9	688.3	688.8	689.3
177.5°	690.2	689.7	689.8	689.8	689.9	690.0	690.2	690.7	691.1	691.4	691.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333125-830

CATALOG NUMBER: S125DIP-S375D590U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	515.9	518.3	519.9	522.8	525.3	526.7	527.9	529.0	530.2	531.2	534.2
5°	519.2	524.9	529.7	537.1	543.8	549.0	554.7	559.7	563.8	569.8	574.3
7.5°	517.7	527.8	538.4	549.9	561.6	572.4	582.5	591.8	600.3	610.6	619.6
10°	516.4	530.1	543.6	559.1	575.0	588.4	601.1	614.0	623.3	636.4	647.5
12.5°	515.4	531.5	547.8	566.4	583.8	602.9	619.7	629.1	643.4	653.8	667.0
15°	511.0	532.3	554.7	575.6	600.5	618.1	632.9	651.2	664.5	677.8	692.1
17.5°	503.0	527.3	552.3	579.8	603.5	622.5	641.6	659.2	675.0	692.9	710.8
20°	499.4	523.6	552.3	580.4	603.7	623.5	643.1	662.5	680.0	702.9	723.5
22.5°	491.7	520.9	547.4	574.9	598.8	620.4	642.6	664.6	687.8	713.6	739.5
25°	478.1	507.7	535.7	562.8	586.9	614.0	637.7	667.1	696.7	730.9	763.2
27.5°	463.8	492.2	517.9	544.0	572.2	602.9	633.6	666.9	705.8	748.9	794.4
30°	452.3	479.2	504.2	530.9	560.3	594.7	628.6	668.2	713.0	761.6	815.7
32.5°	438.9	463.6	488.0	516.3	548.4	584.7	624.1	667.5	721.4	776.6	832.2
35°	415.9	436.7	461.8	492.0	528.1	569.8	615.3	666.7	728.5	791.9	838.7
37.5°	388.8	408.0	434.4	467.6	505.5	550.2	604.2	665.2	730.8	781.4	796.4
40°	370.4	388.3	415.8	450.2	488.9	536.2	595.4	659.9	723.5	755.7	743.3
42.5°	350.9	369.7	396.4	430.5	472.2	523.7	584.5	648.9	702.3	714.4	671.6
45°	320.2	339.5	365.9	400.3	445.2	501.0	564.3	622.9	653.6	631.6	565.1
47.5°	291.5	309.7	334.1	369.7	415.9	473.6	534.6	581.4	583.8	531.3	460.3
50°	272.0	288.8	313.4	348.9	394.8	453.3	508.3	545.2	528.6	469.1	401.0
52.5°	252.9	269.3	293.5	328.7	374.1	427.6	478.9	504.7	473.5	412.5	354.3
55°	225.2	239.6	263.3	295.8	338.8	388.5	432.1	441.0	400.5	340.4	293.1
57.5°	198.2	211.6	233.2	263.1	302.6	346.5	380.6	378.6	335.8	284.3	246.8
60°	179.9	192.9	212.2	241.3	277.3	315.2	344.3	337.3	294.9	250.4	218.9
62.5°	163.5	175.2	193.3	218.9	251.7	286.7	310.7	300.4	258.8	220.0	195.0
65°	139.4	149.2	164.7	186.4	213.7	242.6	261.2	247.9	212.4	182.1	162.0
67.5°	116.3	124.2	137.1	154.6	177.8	201.0	212.3	199.0	170.5	148.5	133.6
70°	101.7	108.7	118.7	134.1	154.4	174.0	182.5	170.5	146.1	127.1	116.5
72.5°	87.1	92.8	101.6	115.6	131.8	148.7	156.2	144.8	124.7	108.7	98.8
75°	67.3	71.3	77.3	86.9	99.7	113.3	117.3	107.4	94.5	82.6	76.0
77.5°	48.2	51.5	56.1	62.1	71.3	79.8	83.4	77.7	67.8	60.1	54.8
80°	37.0	38.7	42.7	47.7	54.9	60.3	62.7	59.0	52.0	46.4	42.2
82.5°	26.4	28.2	30.4	34.6	39.2	42.9	45.4	43.0	38.0	33.5	31.1
85°	12.8	13.9	15.3	17.0	20.5	22.6	22.4	20.9	18.9	17.2	15.9
87.5°	4.8	5.2	5.9	7.0	7.6	8.6	9.0	8.9	8.3	7.9	7.5
90°	1.5	2.5	3.4	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8
92.5°	13.7	14.3	15.0	15.6	16.5	17.5	18.6	19.6	20.6	21.4	22.2
95°	35.2	35.4	35.6	35.9	36.7	37.8	39.0	40.2	41.4	42.2	43.1
97.5°	58.2	58.2	58.3	58.4	59.3	61.0	62.6	64.3	65.9	66.7	67.5
100°	75.3	75.3	75.3	75.3	76.1	77.6	79.2	80.7	82.3	83.3	84.5
102.5°	94.3	94.7	95.2	95.7	96.3	97.1	97.9	98.7	99.4	100.7	101.8
105°	123.2	123.8	124.4	125.0	125.6	126.4	127.1	127.8	128.5	129.2	130.0
107.5°	155.0	155.6	156.2	156.8	157.4	158.0	158.4	159.0	159.6	159.9	160.3
110°	176.9	177.6	178.1	178.8	179.3	179.6	179.9	180.3	180.7	181.1	181.3





TEST NUMBER: P333125-830

CATALOG NUMBER: S125DIP-S375D590U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	199.1	199.3	199.6	200.0	200.4	200.9	201.2	201.7	202.2	202.4	202.6
115°	232.2	232.7	233.2	233.7	234.0	234.2	234.5	234.7	235.0	234.9	234.7
117.5°	265.0	265.3	265.5	265.7	266.0	266.2	266.4	266.6	266.8	266.9	267.0
120°	286.2	286.7	287.3	287.9	288.2	288.4	288.5	288.6	288.7	288.7	288.7
122.5°	308.1	308.3	308.5	308.8	309.0	309.3	309.6	309.9	310.3	310.2	310.1
125°	338.9	339.6	340.4	341.1	341.5	341.6	341.8	341.9	342.0	341.8	341.5
127.5°	370.9	371.3	371.6	372.1	372.4	372.5	372.7	372.8	373.0	372.9	372.7
130°	390.4	391.1	391.6	392.2	392.7	392.9	393.1	393.3	393.6	393.5	393.3
132.5°	410.2	411.1	412.1	413.1	413.6	413.5	413.5	413.4	413.4	413.3	413.1
135°	440.5	441.3	442.0	442.7	443.1	443.3	443.4	443.5	443.6	443.6	443.6
137.5°	469.4	470.0	470.7	471.5	471.9	472.2	472.4	472.7	473.0	473.1	473.3
140°	487.8	488.3	488.9	489.6	490.0	490.4	490.8	491.1	491.4	491.7	491.9
142.5°	506.1	506.6	507.2	507.7	508.1	508.6	509.1	509.5	509.9	510.1	510.2
145°	533.3	533.9	534.3	534.8	535.2	535.6	535.9	536.3	536.6	536.6	536.6
147.5°	558.3	558.6	558.8	559.1	559.3	559.6	560.0	560.2	560.5	560.8	561.1
150°	574.7	574.6	574.5	574.3	574.5	575.0	575.4	575.9	576.4	576.4	576.4
152.5°	588.7	588.9	589.1	589.2	589.4	589.6	589.7	589.9	590.2	590.5	590.8
155°	609.7	609.7	609.7	609.7	609.8	609.9	610.0	610.2	610.3	610.8	611.2
157.5°	628.4	628.1	627.9	627.6	627.5	627.6	627.8	627.9	628.0	628.5	629.0
160°	639.5	639.1	638.8	638.4	638.3	638.4	638.6	638.7	638.8	639.2	639.7
162.5°	649.5	649.2	648.9	648.7	648.6	648.6	648.7	648.7	648.7	649.2	649.8
165°	662.7	662.5	662.2	662.0	661.9	662.0	662.2	662.3	662.4	662.9	663.4
167.5°	673.7	673.2	672.7	672.2	672.0	672.0	672.0	672.0	672.0	672.7	673.4
170°	679.7	679.2	678.7	678.3	678.1	678.1	678.1	678.1	678.1	678.7	679.5
172.5°	684.0	683.5	683.1	682.6	682.3	682.3	682.3	682.3	682.3	683.1	683.8
175°	688.8	688.3	687.9	687.4	687.2	687.2	687.2	687.2	687.2	687.9	688.6
177.5°	691.4	691.1	690.7	690.2	690.0	689.9	689.8	689.8	689.7	690.2	690.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	536.7	538.0	541.0	540.0	541.3	542.1	542.7
5°	579.9	586.9	590.0	589.6	594.2	593.0	591.9
7.5°	629.0	636.2	640.4	645.5	648.4	648.7	651.2
10°	656.7	666.2	670.1	675.6	679.1	681.1	680.8
12.5°	677.9	685.4	694.2	696.8	701.5	704.1	703.1
15°	703.5	715.5	724.6	729.2	735.1	736.8	739.1
17.5°	726.3	742.3	753.0	767.2	772.6	775.9	773.9
20°	743.6	764.7	775.3	792.3	801.7	806.7	804.9
22.5°	763.9	786.8	806.5	821.2	835.5	842.3	843.7
25°	798.9	830.2	859.2	878.5	896.2	900.3	909.5
27.5°	837.9	874.9	905.9	926.2	938.5	943.1	946.0
30°	862.4	899.3	922.6	935.7	939.5	939.1	938.7
32.5°	874.5	897.5	902.0	898.3	889.4	881.7	873.8
35°	857.4	840.3	814.5	781.5	757.1	732.4	730.0
37.5°	771.2	716.1	673.4	625.6	598.0	581.0	569.2
40°	689.9	627.5	575.6	535.4	507.3	496.2	485.2
42.5°	601.8	542.1	496.2	462.5	441.4	429.0	420.5
45°	488.9	436.2	400.3	375.9	359.1	349.6	344.1
47.5°	400.7	361.7	331.1	313.5	302.0	294.5	294.5
50°	353.3	316.0	295.8	281.8	271.8	265.9	267.0
52.5°	311.2	283.4	266.2	254.5	247.0	243.5	243.3
55°	260.2	240.3	228.9	220.4	215.4	211.2	212.2
57.5°	222.6	205.8	198.1	191.1	187.6	186.0	183.5
60°	199.3	186.2	179.6	174.0	170.5	169.2	166.8
62.5°	178.5	168.2	161.9	157.3	154.2	153.7	151.8
65°	150.1	142.2	136.6	134.4	131.1	130.3	130.3
67.5°	123.7	118.1	113.7	111.7	110.3	110.5	109.4
70°	107.2	102.5	99.7	97.6	96.5	96.7	95.9
72.5°	93.8	88.6	86.1	84.8	83.4	84.0	83.6
75°	71.0	68.4	67.1	65.8	64.9	64.5	64.0
77.5°	52.1	49.9	48.8	48.1	48.3	47.1	48.0
80°	40.2	38.4	37.7	36.6	36.4	36.4	36.2
82.5°	29.5	28.4	27.9	27.1	26.6	27.0	26.4
85°	15.3	14.4	14.1	14.1	13.8	13.3	14.4
87.5°	7.6	7.1	7.2	7.1	7.2	7.1	6.8
90°	10.4	11.0	11.5	11.9	12.2	12.5	12.9
92.5°	23.0	23.8	24.3	24.6	24.9	25.1	25.4
95°	43.9	44.8	45.2	45.5	45.8	46.0	46.3
97.5°	68.3	69.1	69.6	69.7	69.8	69.9	70.1
100°	85.5	86.5	87.2	87.5	87.8	87.9	88.2
102.5°	103.0	104.2	104.9	105.3	105.6	105.9	106.2
105°	130.6	131.4	132.0	132.2	132.6	133.0	133.4
107.5°	160.7	161.0	161.2	161.2	161.2	161.1	161.1
110°	181.7	182.1	182.2	182.1	182.0	181.8	181.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	202.6	202.8	202.8	202.6	202.4	202.2	202.0
115°	234.6	234.5	234.4	234.2	234.1	234.0	233.9
117.5°	267.1	267.2	267.0	266.6	266.1	265.6	265.0
120°	288.7	288.7	288.5	288.0	287.6	287.1	286.6
122.5°	310.0	309.9	309.6	309.2	308.9	308.5	308.1
125°	341.3	341.0	340.8	340.7	340.6	340.4	340.4
127.5°	372.6	372.5	372.3	372.0	371.8	371.6	371.4
130°	393.2	393.1	392.9	392.7	392.5	392.2	392.0
132.5°	413.0	412.9	412.6	412.4	412.0	411.7	411.3
135°	443.6	443.6	443.4	442.9	442.4	442.0	441.5
137.5°	473.3	473.5	473.3	472.7	472.1	471.6	470.9
140°	492.2	492.4	492.2	491.6	491.1	490.4	489.8
142.5°	510.4	510.5	510.3	509.7	509.1	508.5	507.9
145°	536.6	536.6	536.4	536.1	535.7	535.4	535.0
147.5°	561.4	561.7	561.4	560.5	559.8	558.9	558.2
150°	576.4	576.4	576.3	576.1	575.8	575.6	575.3
152.5°	591.1	591.4	591.3	590.8	590.4	589.9	589.6
155°	611.7	612.2	612.2	611.5	611.0	610.3	609.7
157.5°	629.4	629.9	629.8	629.0	628.2	627.5	626.6
160°	640.2	640.6	640.6	640.1	639.4	638.9	638.3
162.5°	650.4	651.0	650.9	650.3	649.5	648.8	648.1
165°	663.8	664.4	664.2	663.5	662.8	662.0	661.4
167.5°	674.2	674.9	674.9	674.1	673.4	672.6	671.9
170°	680.1	680.9	680.8	680.0	679.2	678.3	677.5
172.5°	684.5	685.2	685.2	684.5	683.7	683.0	682.2
175°	689.3	690.0	689.9	689.2	688.3	687.5	686.6
177.5°	691.4	691.9	691.9	691.3	690.6	689.8	689.2
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0

(END OF REPORT)