

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: P333133-830

Luminaire Tested: **S125DIP-S375D810U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333133-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S375D810U830-4F0-1E-UDD-A
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4503.5 lumens
Efficiency: N/A
Efficacy: 144.3 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: Semi-Indirect

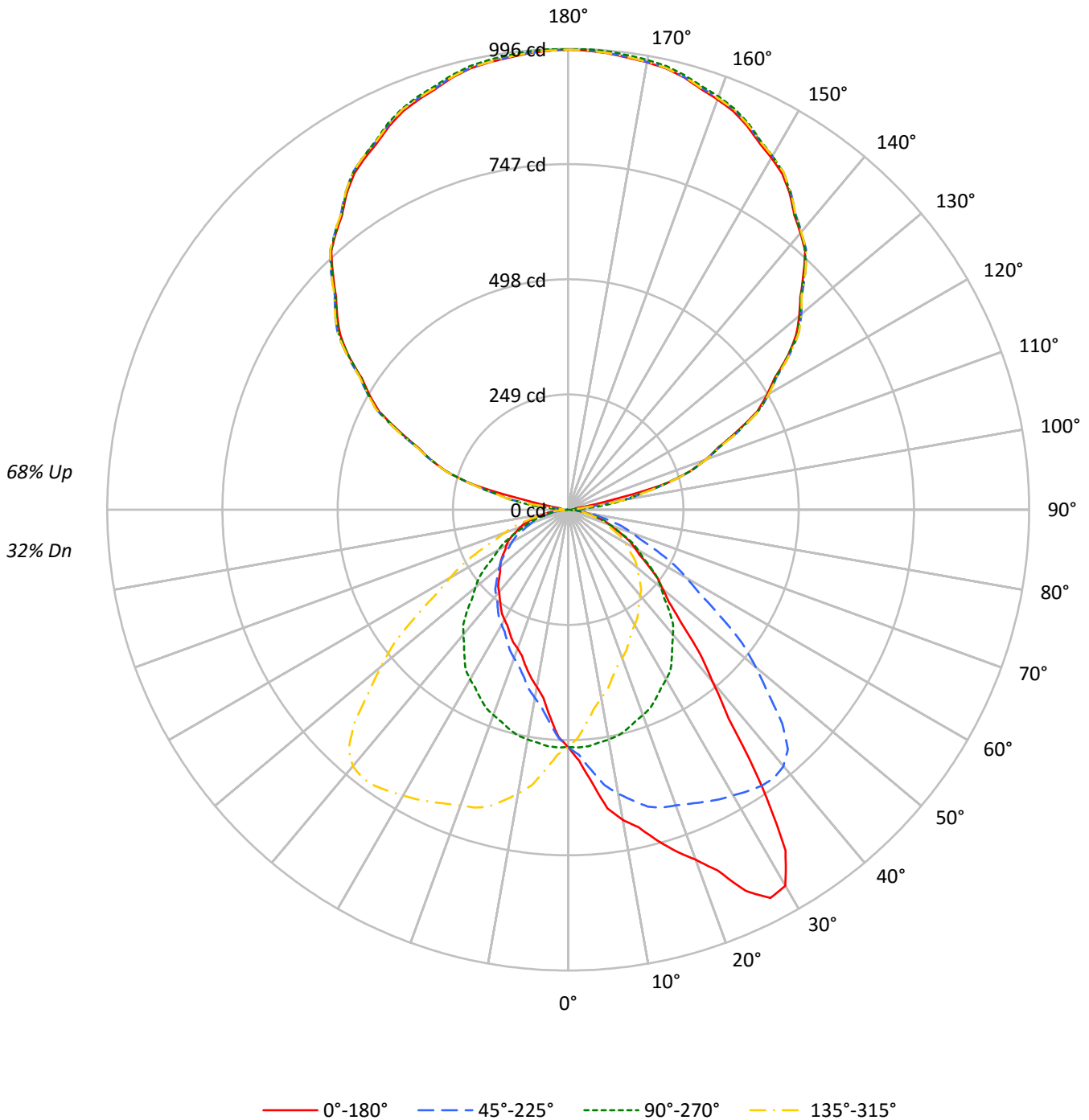
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8

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	1.1
10°-20°	147.1	3.3
20°-30°	238.8	5.3
30°-40°	291.3	6.5
40°-50°	265.0	5.9
50°-60°	211.1	4.7
60°-70°	147.0	3.3
70°-80°	78.4	1.7
80°-90°	21.9	0.5
90°-100°	36.1	0.8
100°-110°	222.7	4.9
110°-120°	403.9	9.0
120°-130°	518.4	11.5
130°-140°	557.5	12.4
140°-150°	523.3	11.6
150°-160°	423.3	9.4
160°-170°	273.8	6.1
170°-180°	94.4	2.1
0°-30°	435.3	9.7
0°-40°	726.6	16.1
0°-60°	1202.7	26.7
0°-90°	1450.0	32.2
90°-120°	662.7	14.7
90°-150°	2262.0	50.2
90°-180°	3054.0	67.8
0°-180°	4503.5	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°	18	1	18	1	18	8
95°	16	42	16	42	16	13
105°	219	217	219	217	219	198
115°	404	407	404	407	404	401
125°	579	579	579	579	579	515
135°	719	722	719	722	719	555
145°	834	837	834	837	834	521
155°	915	921	915	921	915	422
165°	967	972	967	972	967	273
175°	990	994	990	994	990	94
180°	994	994	994	994	994	



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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°	7.7	8.0	8.0	7.9	8.0	7.9	8.4	8.3	8.6	9.0	9.4
90°	17.7	17.2	16.7	16.2	15.7	15.1	14.2	13.5	12.6	11.8	10.7
92.5°	16.5	16.3	16.0	15.8	15.6	15.1	14.2	13.5	12.6	11.8	10.7
95°	15.5	15.5	15.5	15.5	15.5	15.1	14.2	13.5	12.6	11.8	18.0
97.5°	15.5	15.5	15.5	15.5	15.5	17.8	22.4	27.1	31.7	36.3	48.5
100°	15.5	16.1	16.8	17.4	18.1	30.6	55.0	79.5	103.9	128.3	127.6
102.5°	92.7	103.9	115.0	126.1	137.3	145.2	149.8	154.4	159.0	163.6	163.2
105°	219.0	219.0	219.2	219.4	219.6	219.6	219.6	219.6	219.6	219.6	219.6
107.5°	276.0	276.4	276.9	277.5	278.0	278.1	278.1	278.1	278.1	278.1	277.7
110°	315.5	315.3	315.2	315.0	314.8	315.0	315.5	315.9	316.5	317.0	316.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	350.9	351.1	351.3	351.6	351.8	352.2	352.8	353.5	354.1	354.7	354.5
115°	404.0	404.9	405.9	406.9	407.8	408.7	409.3	410.0	410.7	411.3	411.1
117.5°	460.5	461.0	461.4	461.8	462.2	462.9	463.7	464.6	465.4	466.3	465.7
120°	495.3	496.2	497.0	497.8	498.6	499.2	499.5	499.8	500.2	500.5	500.0
122.5°	528.4	529.3	530.3	531.2	532.2	532.8	533.1	533.5	533.8	534.1	533.9
125°	578.6	579.1	579.6	580.1	580.6	581.2	581.8	582.5	583.2	583.8	583.8
127.5°	620.9	622.2	623.4	624.6	625.8	626.6	627.0	627.3	627.6	628.0	628.1
130°	651.6	652.4	653.3	654.0	654.9	655.5	656.0	656.5	657.0	657.5	657.3
132.5°	680.0	680.7	681.6	682.4	683.2	683.6	683.7	683.8	683.9	684.0	684.4
135°	718.7	719.6	720.7	721.6	722.6	723.3	723.6	724.0	724.2	724.6	724.9
137.5°	757.6	758.5	759.3	760.2	761.0	761.4	761.3	761.3	761.2	761.1	761.5
140°	780.6	781.6	782.6	783.5	784.6	784.9	784.6	784.2	783.9	783.5	783.7
142.5°	802.4	803.4	804.4	805.4	806.3	806.8	806.7	806.7	806.6	806.5	806.3
145°	834.4	835.4	836.4	837.4	838.3	838.8	838.6	838.4	838.3	838.1	838.1
147.5°	860.8	862.0	863.2	864.3	865.5	866.0	865.8	865.6	865.4	865.3	865.1
150°	877.9	879.2	880.5	881.8	883.2	883.6	883.4	883.0	882.7	882.3	882.0
152.5°	893.8	895.0	896.2	897.4	898.5	899.0	898.6	898.3	898.0	897.7	897.3
155°	914.7	916.1	917.4	918.7	920.0	920.4	919.9	919.5	918.9	918.4	918.1
157.5°	932.3	933.6	934.9	936.2	937.5	937.9	937.5	936.9	936.3	935.9	935.8
160°	943.5	944.8	946.1	947.4	948.8	949.0	948.4	947.7	947.1	946.4	946.3
162.5°	953.6	955.0	956.4	957.8	959.3	959.5	958.7	957.7	956.8	955.9	955.7
165°	967.0	968.4	969.7	971.0	972.3	972.5	971.5	970.5	969.6	968.6	968.4
167.5°	976.6	978.0	979.5	980.9	982.4	982.6	981.4	980.2	979.0	977.9	977.7
170°	981.8	983.3	984.8	986.3	987.7	987.8	986.5	985.1	983.9	982.6	982.4
172.5°	985.3	986.8	988.4	989.8	991.3	991.5	990.2	989.0	987.9	986.7	986.4
175°	990.0	991.5	992.9	994.4	995.8	995.9	994.6	993.3	992.0	990.7	990.5
177.5°	992.6	993.6	994.7	995.7	996.8	996.8	995.9	995.0	994.1	993.2	993.1
180°	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4



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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°	9.5	9.0	8.1	7.3	6.1	5.4	4.9	4.8	4.6	4.7	5.1
90°	9.5	8.4	7.2	5.9	4.7	3.4	2.1	0.8	2.1	3.4	4.7
92.5°	9.8	8.8	7.7	7.7	8.6	9.5	10.5	11.3	10.5	9.5	8.6
95°	24.2	30.4	36.7	40.1	40.5	41.0	41.6	42.0	41.6	41.0	40.5
97.5°	60.9	73.2	85.6	91.2	90.4	89.4	88.6	87.8	88.6	89.4	90.4
100°	127.0	126.3	125.6	125.1	124.6	124.0	123.6	123.1	123.6	124.0	124.6
102.5°	162.9	162.5	162.0	161.6	160.9	160.3	159.7	159.1	159.7	160.3	160.9
105°	219.6	219.6	219.6	219.3	218.7	218.0	217.4	216.7	217.4	218.0	218.7
107.5°	277.4	277.0	276.7	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5
110°	316.3	315.9	315.7	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5



TEST NUMBER: P333133-830

CATALOG NUMBER: S125DIP-S375D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	354.3	354.1	353.9	353.6	353.3	352.8	352.4	352.0	352.4	352.8	353.3
115°	410.9	410.9	410.7	410.2	409.3	408.5	407.7	406.9	407.7	408.5	409.3
117.5°	465.1	464.4	463.8	463.5	463.5	463.5	463.6	463.6	463.6	463.5	463.5
120°	499.5	499.0	498.5	498.3	498.5	498.7	498.9	499.0	498.9	498.7	498.5
122.5°	533.7	533.4	533.2	532.7	532.2	531.5	530.9	530.3	530.9	531.5	532.2
125°	583.8	583.8	583.8	583.2	582.1	580.9	579.8	578.6	579.8	580.9	582.1
127.5°	628.2	628.3	628.4	628.0	627.3	626.4	625.6	624.8	625.6	626.4	627.3
130°	657.1	657.0	656.9	656.4	655.5	654.7	653.9	653.1	653.9	654.7	655.5
132.5°	684.8	685.1	685.5	685.2	684.2	683.2	682.3	681.4	682.3	683.2	684.2
135°	725.2	725.6	725.9	725.6	724.6	723.6	722.6	721.6	722.6	723.6	724.6
137.5°	761.8	762.0	762.3	762.0	761.2	760.3	759.5	758.7	759.5	760.3	761.2
140°	783.9	784.0	784.2	784.1	783.8	783.4	783.2	782.8	783.2	783.4	783.8
142.5°	806.1	805.9	805.6	805.4	805.2	805.0	804.8	804.6	804.8	805.0	805.2
145°	838.1	838.1	838.1	837.9	837.6	837.3	837.0	836.6	837.0	837.3	837.6
147.5°	864.8	864.6	864.4	864.4	864.4	864.5	864.6	864.6	864.6	864.5	864.4
150°	881.7	881.4	881.0	881.0	881.4	881.7	882.0	882.3	882.0	881.7	881.4
152.5°	897.0	896.6	896.4	896.5	897.3	898.0	898.7	899.5	898.7	898.0	897.3
155°	917.8	917.5	917.1	917.5	918.4	919.5	920.4	921.4	920.4	919.5	918.4
157.5°	935.8	935.8	935.7	935.9	936.6	937.2	937.7	938.3	937.7	937.2	936.6
160°	946.1	945.9	945.8	946.2	947.2	948.2	949.1	950.2	949.1	948.2	947.2
162.5°	955.5	955.4	955.3	955.6	956.6	957.6	958.6	959.6	958.6	957.6	956.6
165°	968.3	968.1	967.9	968.3	969.3	970.3	971.3	972.2	971.3	970.3	969.3
167.5°	977.5	977.3	977.2	977.6	978.6	979.7	980.7	981.7	980.7	979.7	978.6
170°	982.2	982.0	981.9	982.4	983.5	984.7	985.8	987.0	985.8	984.7	983.5
172.5°	986.1	985.8	985.5	985.9	987.1	988.3	989.4	990.5	989.4	988.3	987.1
175°	990.3	990.1	990.0	990.4	991.5	992.4	993.3	994.4	993.3	992.4	991.5
177.5°	992.9	992.8	992.7	993.0	993.8	994.6	995.3	996.2	995.3	994.6	993.8
180°	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4



TEST NUMBER: P333133-830

CATALOG NUMBER: S125DIP-S375D810U830-4F0-1E-UDD-A

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°	5.6	6.1	6.2	6.6	6.9	7.4	7.4	8.3	8.8	9.3	9.2
90°	5.9	7.2	8.4	9.5	10.7	11.8	12.6	13.5	14.2	15.1	15.7
92.5°	7.7	7.7	8.8	9.8	10.7	11.8	12.6	13.5	14.2	15.1	15.6
95°	40.1	36.7	30.4	24.2	18.0	11.8	12.6	13.5	14.2	15.1	15.5
97.5°	91.2	85.6	73.2	60.9	48.5	36.3	31.7	27.1	22.4	17.8	15.5
100°	125.1	125.6	126.3	127.0	127.6	128.3	103.9	79.5	55.0	30.6	18.1
102.5°	161.6	162.0	162.5	162.9	163.2	163.6	159.0	154.4	149.8	145.2	137.3
105°	219.3	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6
107.5°	276.5	276.7	277.0	277.4	277.7	278.1	278.1	278.1	278.1	278.1	278.0
110°	315.5	315.7	315.9	316.3	316.6	317.0	316.5	315.9	315.5	315.0	314.8



TEST NUMBER: P333133-830

CATALOG NUMBER: S125DIP-S375D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	353.6	353.9	354.1	354.3	354.5	354.7	354.1	353.5	352.8	352.2	351.8
115°	410.2	410.7	410.9	410.9	411.1	411.3	410.7	410.0	409.3	408.7	407.8
117.5°	463.5	463.8	464.4	465.1	465.7	466.3	465.4	464.6	463.7	462.9	462.2
120°	498.3	498.5	499.0	499.5	500.0	500.5	500.2	499.8	499.5	499.2	498.6
122.5°	532.7	533.2	533.4	533.7	533.9	534.1	533.8	533.5	533.1	532.8	532.2
125°	583.2	583.8	583.8	583.8	583.8	583.8	583.2	582.5	581.8	581.2	580.6
127.5°	628.0	628.4	628.3	628.2	628.1	628.0	627.6	627.3	627.0	626.6	625.8
130°	656.4	656.9	657.0	657.1	657.3	657.5	657.0	656.5	656.0	655.5	654.9
132.5°	685.2	685.5	685.1	684.8	684.4	684.0	683.9	683.8	683.7	683.6	683.2
135°	725.6	725.9	725.6	725.2	724.9	724.6	724.2	724.0	723.6	723.3	722.6
137.5°	762.0	762.3	762.0	761.8	761.5	761.1	761.2	761.3	761.3	761.4	761.0
140°	784.1	784.2	784.0	783.9	783.7	783.5	783.9	784.2	784.6	784.9	784.6
142.5°	805.4	805.6	805.9	806.1	806.3	806.5	806.6	806.7	806.7	806.8	806.3
145°	837.9	838.1	838.1	838.1	838.1	838.1	838.3	838.4	838.6	838.8	838.3
147.5°	864.4	864.4	864.6	864.8	865.1	865.3	865.4	865.6	865.8	866.0	865.5
150°	881.0	881.0	881.4	881.7	882.0	882.3	882.7	883.0	883.4	883.6	883.2
152.5°	896.5	896.4	896.6	897.0	897.3	897.7	898.0	898.3	898.6	899.0	898.5
155°	917.5	917.1	917.5	917.8	918.1	918.4	918.9	919.5	919.9	920.4	920.0
157.5°	935.9	935.7	935.8	935.8	935.8	935.9	936.3	936.9	937.5	937.9	937.5
160°	946.2	945.8	945.9	946.1	946.3	946.4	947.1	947.7	948.4	949.0	948.8
162.5°	955.6	955.3	955.4	955.5	955.7	955.9	956.8	957.7	958.7	959.5	959.3
165°	968.3	967.9	968.1	968.3	968.4	968.6	969.6	970.5	971.5	972.5	972.3
167.5°	977.6	977.2	977.3	977.5	977.7	977.9	979.0	980.2	981.4	982.6	982.4
170°	982.4	981.9	982.0	982.2	982.4	982.6	983.9	985.1	986.5	987.8	987.7
172.5°	985.9	985.5	985.8	986.1	986.4	986.7	987.9	989.0	990.2	991.5	991.3
175°	990.4	990.0	990.1	990.3	990.5	990.7	992.0	993.3	994.6	995.9	995.8
177.5°	993.0	992.7	992.8	992.9	993.1	993.2	994.1	995.0	995.9	996.8	996.8
180°	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4



TEST NUMBER: P333133-830

CATALOG NUMBER: S125DIP-S375D810U830-4F0-1E-UDD-A

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°	9.7	9.6	9.7	10.2	9.7	9.6	9.7	9.2	9.3	8.8	8.3
90°	16.2	16.7	17.2	17.7	17.2	16.7	16.2	15.7	15.1	14.2	13.5
92.5°	15.8	16.0	16.3	16.5	16.3	16.0	15.8	15.6	15.1	14.2	13.5
95°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.1	14.2	13.5
97.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	17.8	22.4	27.1
100°	17.4	16.8	16.1	15.5	16.1	16.8	17.4	18.1	30.6	55.0	79.5
102.5°	126.1	115.0	103.9	92.7	103.9	115.0	126.1	137.3	145.2	149.8	154.4
105°	219.4	219.2	219.0	219.0	219.0	219.2	219.4	219.6	219.6	219.6	219.6
107.5°	277.5	276.9	276.4	276.0	276.4	276.9	277.5	278.0	278.1	278.1	278.1
110°	315.0	315.2	315.3	315.5	315.3	315.2	315.0	314.8	315.0	315.5	315.9



TEST NUMBER: P333133-830

CATALOG NUMBER: S125DIP-S375D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	351.6	351.3	351.1	350.9	351.1	351.3	351.6	351.8	352.2	352.8	353.5
115°	406.9	405.9	404.9	404.0	404.9	405.9	406.9	407.8	408.7	409.3	410.0
117.5°	461.8	461.4	461.0	460.5	461.0	461.4	461.8	462.2	462.9	463.7	464.6
120°	497.8	497.0	496.2	495.3	496.2	497.0	497.8	498.6	499.2	499.5	499.8
122.5°	531.2	530.3	529.3	528.4	529.3	530.3	531.2	532.2	532.8	533.1	533.5
125°	580.1	579.6	579.1	578.6	579.1	579.6	580.1	580.6	581.2	581.8	582.5
127.5°	624.6	623.4	622.2	620.9	622.2	623.4	624.6	625.8	626.6	627.0	627.3
130°	654.0	653.3	652.4	651.6	652.4	653.3	654.0	654.9	655.5	656.0	656.5
132.5°	682.4	681.6	680.7	680.0	680.7	681.6	682.4	683.2	683.6	683.7	683.8
135°	721.6	720.7	719.6	718.7	719.6	720.7	721.6	722.6	723.3	723.6	724.0
137.5°	760.2	759.3	758.5	757.6	758.5	759.3	760.2	761.0	761.4	761.3	761.3
140°	783.5	782.6	781.6	780.6	781.6	782.6	783.5	784.6	784.9	784.6	784.2
142.5°	805.4	804.4	803.4	802.4	803.4	804.4	805.4	806.3	806.8	806.7	806.7
145°	837.4	836.4	835.4	834.4	835.4	836.4	837.4	838.3	838.8	838.6	838.4
147.5°	864.3	863.2	862.0	860.8	862.0	863.2	864.3	865.5	866.0	865.8	865.6
150°	881.8	880.5	879.2	877.9	879.2	880.5	881.8	883.2	883.6	883.4	883.0
152.5°	897.4	896.2	895.0	893.8	895.0	896.2	897.4	898.5	899.0	898.6	898.3
155°	918.7	917.4	916.1	914.7	916.1	917.4	918.7	920.0	920.4	919.9	919.5
157.5°	936.2	934.9	933.6	932.3	933.6	934.9	936.2	937.5	937.9	937.5	936.9
160°	947.4	946.1	944.8	943.5	944.8	946.1	947.4	948.8	949.0	948.4	947.7
162.5°	957.8	956.4	955.0	953.6	955.0	956.4	957.8	959.3	959.5	958.7	957.7
165°	971.0	969.7	968.4	967.0	968.4	969.7	971.0	972.3	972.5	971.5	970.5
167.5°	980.9	979.5	978.0	976.6	978.0	979.5	980.9	982.4	982.6	981.4	980.2
170°	986.3	984.8	983.3	981.8	983.3	984.8	986.3	987.7	987.8	986.5	985.1
172.5°	989.8	988.4	986.8	985.3	986.8	988.4	989.8	991.3	991.5	990.2	989.0
175°	994.4	992.9	991.5	990.0	991.5	992.9	994.4	995.8	995.9	994.6	993.3
177.5°	995.7	994.7	993.6	992.6	993.6	994.7	995.7	996.8	996.8	995.9	995.0
180°	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4



TEST NUMBER: P333133-830

CATALOG NUMBER: S125DIP-S375D810U830-4F0-1E-UDD-A

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°	7.4	7.4	6.9	6.6	6.2	6.1	5.6	5.1	4.7	4.6	4.8
90°	12.6	11.8	10.7	9.5	8.4	7.2	5.9	4.7	3.4	2.1	0.8
92.5°	12.6	11.8	10.7	9.8	8.8	7.7	7.7	8.6	9.5	10.5	11.3
95°	12.6	11.8	18.0	24.2	30.4	36.7	40.1	40.5	41.0	41.6	42.0
97.5°	31.7	36.3	48.5	60.9	73.2	85.6	91.2	90.4	89.4	88.6	87.8
100°	103.9	128.3	127.6	127.0	126.3	125.6	125.1	124.6	124.0	123.6	123.1
102.5°	159.0	163.6	163.2	162.9	162.5	162.0	161.6	160.9	160.3	159.7	159.1
105°	219.6	219.6	219.6	219.6	219.6	219.6	219.3	218.7	218.0	217.4	216.7
107.5°	278.1	278.1	277.7	277.4	277.0	276.7	276.5	276.5	276.5	276.5	276.5
110°	316.5	317.0	316.6	316.3	315.9	315.7	315.5	315.5	315.5	315.5	315.5



TEST NUMBER: P333133-830

CATALOG NUMBER: S125DIP-S375D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	354.1	354.7	354.5	354.3	354.1	353.9	353.6	353.3	352.8	352.4	352.0
115°	410.7	411.3	411.1	410.9	410.9	410.7	410.2	409.3	408.5	407.7	406.9
117.5°	465.4	466.3	465.7	465.1	464.4	463.8	463.5	463.5	463.5	463.6	463.6
120°	500.2	500.5	500.0	499.5	499.0	498.5	498.3	498.5	498.7	498.9	499.0
122.5°	533.8	534.1	533.9	533.7	533.4	533.2	532.7	532.2	531.5	530.9	530.3
125°	583.2	583.8	583.8	583.8	583.8	583.8	583.2	582.1	580.9	579.8	578.6
127.5°	627.6	628.0	628.1	628.2	628.3	628.4	628.0	627.3	626.4	625.6	624.8
130°	657.0	657.5	657.3	657.1	657.0	656.9	656.4	655.5	654.7	653.9	653.1
132.5°	683.9	684.0	684.4	684.8	685.1	685.5	685.2	684.2	683.2	682.3	681.4
135°	724.2	724.6	724.9	725.2	725.6	725.9	725.6	724.6	723.6	722.6	721.6
137.5°	761.2	761.1	761.5	761.8	762.0	762.3	762.0	761.2	760.3	759.5	758.7
140°	783.9	783.5	783.7	783.9	784.0	784.2	784.1	783.8	783.4	783.2	782.8
142.5°	806.6	806.5	806.3	806.1	805.9	805.6	805.4	805.2	805.0	804.8	804.6
145°	838.3	838.1	838.1	838.1	838.1	838.1	837.9	837.6	837.3	837.0	836.6
147.5°	865.4	865.3	865.1	864.8	864.6	864.4	864.4	864.4	864.5	864.6	864.6
150°	882.7	882.3	882.0	881.7	881.4	881.0	881.0	881.4	881.7	882.0	882.3
152.5°	898.0	897.7	897.3	897.0	896.6	896.4	896.5	897.3	898.0	898.7	899.5
155°	918.9	918.4	918.1	917.8	917.5	917.1	917.5	918.4	919.5	920.4	921.4
157.5°	936.3	935.9	935.8	935.8	935.8	935.7	935.9	936.6	937.2	937.7	938.3
160°	947.1	946.4	946.3	946.1	945.9	945.8	946.2	947.2	948.2	949.1	950.2
162.5°	956.8	955.9	955.7	955.5	955.4	955.3	955.6	956.6	957.6	958.6	959.6
165°	969.6	968.6	968.4	968.3	968.1	967.9	968.3	969.3	970.3	971.3	972.2
167.5°	979.0	977.9	977.7	977.5	977.3	977.2	977.6	978.6	979.7	980.7	981.7
170°	983.9	982.6	982.4	982.2	982.0	981.9	982.4	983.5	984.7	985.8	987.0
172.5°	987.9	986.7	986.4	986.1	985.8	985.5	985.9	987.1	988.3	989.4	990.5
175°	992.0	990.7	990.5	990.3	990.1	990.0	990.4	991.5	992.4	993.3	994.4
177.5°	994.1	993.2	993.1	992.9	992.8	992.7	993.0	993.8	994.6	995.3	996.2
180°	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4



TEST NUMBER: P333133-830

CATALOG NUMBER: S125DIP-S375D810U830-4F0-1E-UDD-A

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°	4.9	5.4	6.1	7.3	8.1	9.0	9.5	9.4	9.0	8.6	8.3
90°	2.1	3.4	4.7	5.9	7.2	8.4	9.5	10.7	11.8	12.6	13.5
92.5°	10.5	9.5	8.6	7.7	7.7	8.8	9.8	10.7	11.8	12.6	13.5
95°	41.6	41.0	40.5	40.1	36.7	30.4	24.2	18.0	11.8	12.6	13.5
97.5°	88.6	89.4	90.4	91.2	85.6	73.2	60.9	48.5	36.3	31.7	27.1
100°	123.6	124.0	124.6	125.1	125.6	126.3	127.0	127.6	128.3	103.9	79.5
102.5°	159.7	160.3	160.9	161.6	162.0	162.5	162.9	163.2	163.6	159.0	154.4
105°	217.4	218.0	218.7	219.3	219.6	219.6	219.6	219.6	219.6	219.6	219.6
107.5°	276.5	276.5	276.5	276.5	276.7	277.0	277.4	277.7	278.1	278.1	278.1
110°	315.5	315.5	315.5	315.5	315.7	315.9	316.3	316.6	317.0	316.5	315.9



TEST NUMBER: P333133-830

CATALOG NUMBER: S125DIP-S375D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	352.4	352.8	353.3	353.6	353.9	354.1	354.3	354.5	354.7	354.1	353.5
115°	407.7	408.5	409.3	410.2	410.7	410.9	410.9	411.1	411.3	410.7	410.0
117.5°	463.6	463.5	463.5	463.5	463.8	464.4	465.1	465.7	466.3	465.4	464.6
120°	498.9	498.7	498.5	498.3	498.5	499.0	499.5	500.0	500.5	500.2	499.8
122.5°	530.9	531.5	532.2	532.7	533.2	533.4	533.7	533.9	534.1	533.8	533.5
125°	579.8	580.9	582.1	583.2	583.8	583.8	583.8	583.8	583.8	583.2	582.5
127.5°	625.6	626.4	627.3	628.0	628.4	628.3	628.2	628.1	628.0	627.6	627.3
130°	653.9	654.7	655.5	656.4	656.9	657.0	657.1	657.3	657.5	657.0	656.5
132.5°	682.3	683.2	684.2	685.2	685.5	685.1	684.8	684.4	684.0	683.9	683.8
135°	722.6	723.6	724.6	725.6	725.9	725.6	725.2	724.9	724.6	724.2	724.0
137.5°	759.5	760.3	761.2	762.0	762.3	762.0	761.8	761.5	761.1	761.2	761.3
140°	783.2	783.4	783.8	784.1	784.2	784.0	783.9	783.7	783.5	783.9	784.2
142.5°	804.8	805.0	805.2	805.4	805.6	805.9	806.1	806.3	806.5	806.6	806.7
145°	837.0	837.3	837.6	837.9	838.1	838.1	838.1	838.1	838.1	838.3	838.4
147.5°	864.6	864.5	864.4	864.4	864.4	864.6	864.8	865.1	865.3	865.4	865.6
150°	882.0	881.7	881.4	881.0	881.0	881.4	881.7	882.0	882.3	882.7	883.0
152.5°	898.7	898.0	897.3	896.5	896.4	896.6	897.0	897.3	897.7	898.0	898.3
155°	920.4	919.5	918.4	917.5	917.1	917.5	917.8	918.1	918.4	918.9	919.5
157.5°	937.7	937.2	936.6	935.9	935.7	935.8	935.8	935.8	935.9	936.3	936.9
160°	949.1	948.2	947.2	946.2	945.8	945.9	946.1	946.3	946.4	947.1	947.7
162.5°	958.6	957.6	956.6	955.6	955.3	955.4	955.5	955.7	955.9	956.8	957.7
165°	971.3	970.3	969.3	968.3	967.9	968.1	968.3	968.4	968.6	969.6	970.5
167.5°	980.7	979.7	978.6	977.6	977.2	977.3	977.5	977.7	977.9	979.0	980.2
170°	985.8	984.7	983.5	982.4	981.9	982.0	982.2	982.4	982.6	983.9	985.1
172.5°	989.4	988.3	987.1	985.9	985.5	985.8	986.1	986.4	986.7	987.9	989.0
175°	993.3	992.4	991.5	990.4	990.0	990.1	990.3	990.5	990.7	992.0	993.3
177.5°	995.3	994.6	993.8	993.0	992.7	992.8	992.9	993.1	993.2	994.1	995.0
180°	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4



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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°	8.4	7.9	8.0	7.9	8.0	8.0	7.7
90°	14.2	15.1	15.7	16.2	16.7	17.2	17.7
92.5°	14.2	15.1	15.6	15.8	16.0	16.3	16.5
95°	14.2	15.1	15.5	15.5	15.5	15.5	15.5
97.5°	22.4	17.8	15.5	15.5	15.5	15.5	15.5
100°	55.0	30.6	18.1	17.4	16.8	16.1	15.5
102.5°	149.8	145.2	137.3	126.1	115.0	103.9	92.7
105°	219.6	219.6	219.6	219.4	219.2	219.0	219.0
107.5°	278.1	278.1	278.0	277.5	276.9	276.4	276.0
110°	315.5	315.0	314.8	315.0	315.2	315.3	315.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	352.8	352.2	351.8	351.6	351.3	351.1	350.9
115°	409.3	408.7	407.8	406.9	405.9	404.9	404.0
117.5°	463.7	462.9	462.2	461.8	461.4	461.0	460.5
120°	499.5	499.2	498.6	497.8	497.0	496.2	495.3
122.5°	533.1	532.8	532.2	531.2	530.3	529.3	528.4
125°	581.8	581.2	580.6	580.1	579.6	579.1	578.6
127.5°	627.0	626.6	625.8	624.6	623.4	622.2	620.9
130°	656.0	655.5	654.9	654.0	653.3	652.4	651.6
132.5°	683.7	683.6	683.2	682.4	681.6	680.7	680.0
135°	723.6	723.3	722.6	721.6	720.7	719.6	718.7
137.5°	761.3	761.4	761.0	760.2	759.3	758.5	757.6
140°	784.6	784.9	784.6	783.5	782.6	781.6	780.6
142.5°	806.7	806.8	806.3	805.4	804.4	803.4	802.4
145°	838.6	838.8	838.3	837.4	836.4	835.4	834.4
147.5°	865.8	866.0	865.5	864.3	863.2	862.0	860.8
150°	883.4	883.6	883.2	881.8	880.5	879.2	877.9
152.5°	898.6	899.0	898.5	897.4	896.2	895.0	893.8
155°	919.9	920.4	920.0	918.7	917.4	916.1	914.7
157.5°	937.5	937.9	937.5	936.2	934.9	933.6	932.3
160°	948.4	949.0	948.8	947.4	946.1	944.8	943.5
162.5°	958.7	959.5	959.3	957.8	956.4	955.0	953.6
165°	971.5	972.5	972.3	971.0	969.7	968.4	967.0
167.5°	981.4	982.6	982.4	980.9	979.5	978.0	976.6
170°	986.5	987.8	987.7	986.3	984.8	983.3	981.8
172.5°	990.2	991.5	991.3	989.8	988.4	986.8	985.3
175°	994.6	995.9	995.8	994.4	992.9	991.5	990.0
177.5°	995.9	996.8	996.8	995.7	994.7	993.6	992.6
180°	994.4	994.4	994.4	994.4	994.4	994.4	994.4

(END OF REPORT)