

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: P332715

Luminaire Tested: **S124DIW-S350D470U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332715  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIW-S350D470U835-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 470 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3452.4 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

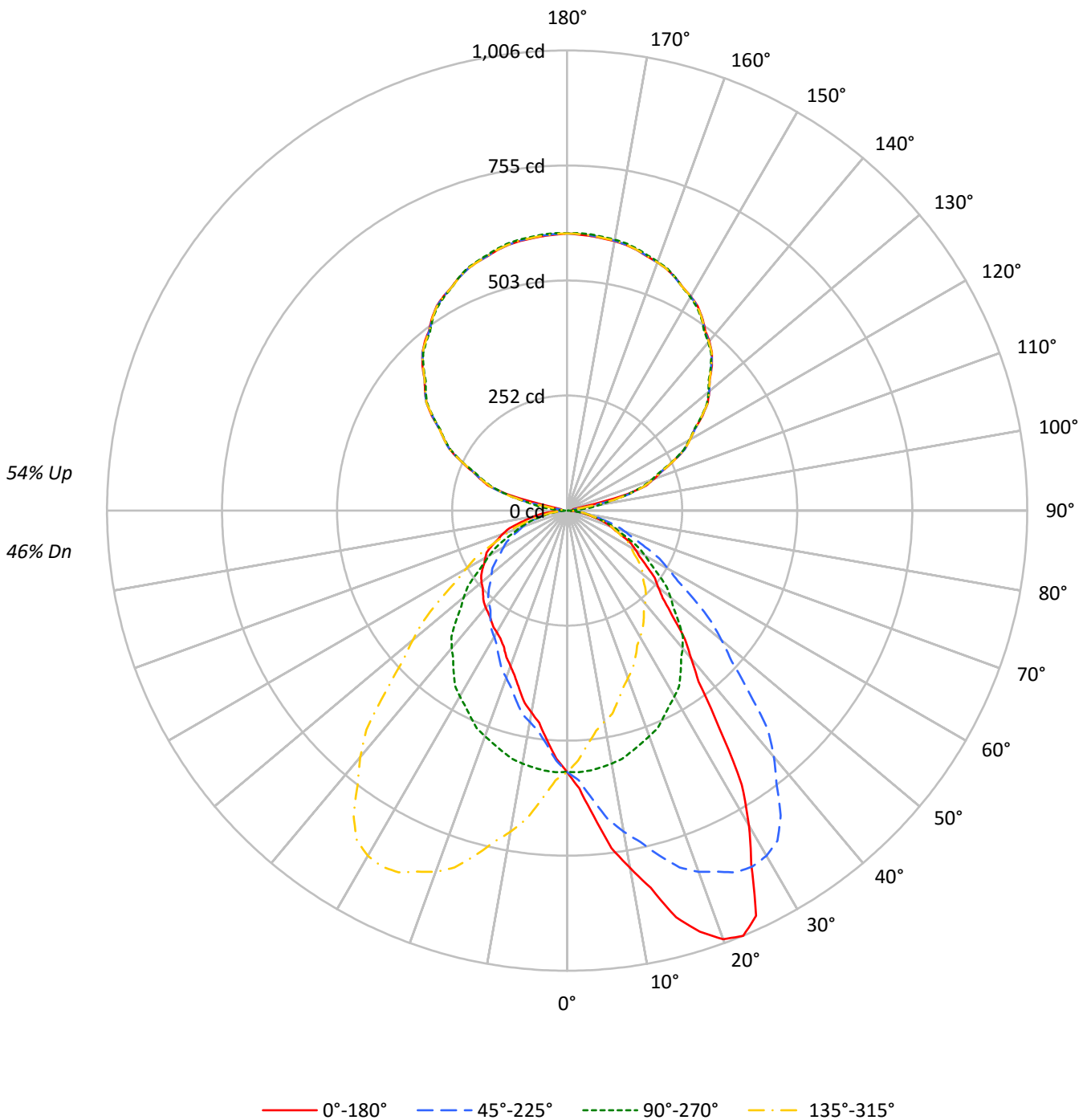
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46					46			
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44	39					39			
2	88	81	75	70	81	75	70	65	63	59	56	51	49	46	41	39	38	33					33			
3	81	72	64	59	74	66	60	55	55	51	47	46	42	40	37	34	32	28					28			
4	74	63	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28	24					24			
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21					21			
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19					19			
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17					17			
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15					15			
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16	13					13			
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	19	16	14	12					12			

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

	0°	90°	180°	270°
0°	4612	4612	4612	4612
5°	5431	4624	4081	4624
10°	6503	4604	3674	4604
15°	7694	4557	3375	4557
20°	8568	4509	3107	4509
25°	8706	4440	2922	4440
30°	7408	4373	2864	4373
35°	5695	4263	2864	4263
40°	4440	4135	2918	4135
45°	3701	3942	2967	3942
50°	3258	3706	3067	3706
55°	2985	3424	3191	3424
60°	2796	3171	3339	3171
65°	2604	2888	3463	2888
70°	2379	2608	3541	2608
75°	2127	2296	3500	2296
80°	1781	1883	3389	1883
85°	1315	1362	3242	1362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	1.6
10°-20°	171.6	5.0
20°-30°	272.0	7.9
30°-40°	302.8	8.8
40°-50°	275.6	8.0
50°-60°	225.2	6.5
60°-70°	160.8	4.7
70°-80°	88.5	2.6
80°-90°	25.9	0.8
90°-100°	20.7	0.6
100°-110°	132.1	3.8
110°-120°	252.8	7.3
120°-130°	320.9	9.3
130°-140°	343.3	9.9
140°-150°	321.0	9.3
150°-160°	258.9	7.5
160°-170°	167.0	4.8
170°-180°	57.6	1.7
0°-30°	499.3	14.5
0°-40°	802.0	23.2
0°-60°	1302.8	37.7
0°-90°	1578.0	45.7
90°-120°	405.6	11.7
90°-150°	1390.9	40.3
90°-180°	1874.0	54.3
0°-180°	3452.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	571	571	571	571	571	
5°	670	571	504	571	670	68
15°	921	545	404	545	921	260
25°	977	498	328	498	977	431
35°	578	433	291	433	578	367
45°	324	345	260	345	324	255
55°	212	243	227	243	212	192
65°	136	151	181	151	136	135
75°	68	74	112	74	68	72
85°	14	15	35	15	14	18
90°	14	1	14	1	14	6
95°	13	25	13	25	13	10
105°	129	136	129	136	129	113
115°	256	255	256	255	256	254
125°	361	358	361	358	361	321
135°	447	444	447	444	447	344
145°	515	512	515	512	515	322
155°	561	562	561	562	561	259
165°	590	592	590	592	590	167
175°	602	606	602	606	602	57
180°	606	606	606	606	606	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	608.0	607.9	606.0	605.6	604.3	602.6	602.2	599.1	593.1	590.2	589.5
5°	670.2	675.0	668.8	667.6	666.9	659.1	655.1	650.4	639.5	633.1	628.1
7.5°	744.5	745.0	742.3	740.2	734.1	727.3	717.1	706.2	693.2	679.8	669.6
10°	793.3	795.2	792.1	791.7	779.6	772.0	756.9	744.1	729.4	713.1	698.2
12.5°	844.8	842.2	840.6	830.5	828.2	814.4	796.8	783.7	761.0	742.2	722.4
15°	920.6	915.4	912.1	898.2	891.3	872.1	853.4	839.0	809.4	781.2	759.9
17.5°	965.1	970.3	962.7	956.9	939.2	925.7	906.6	876.3	853.2	818.2	791.3
20°	997.3	997.8	993.5	987.6	973.7	956.6	935.8	902.7	875.0	840.2	803.2
22.5°	1006.0	1006.1	1004.3	998.8	988.2	974.4	953.4	925.7	892.2	854.4	817.4
25°	977.4	976.5	978.6	984.8	980.8	976.5	964.4	943.8	912.6	872.6	832.8
27.5°	871.2	877.8	889.8	904.9	919.5	930.6	933.7	929.5	910.2	877.3	835.6
30°	794.7	802.8	811.8	826.9	856.3	873.1	891.5	905.5	897.7	871.4	832.6
32.5°	710.7	712.7	726.0	743.2	770.1	802.4	831.7	860.1	869.5	855.7	823.3
35°	577.9	581.3	595.7	612.7	645.6	685.2	729.2	768.5	800.9	813.9	797.3
37.5°	471.6	481.1	491.3	509.6	538.6	574.2	619.9	670.8	719.1	751.5	757.0
40°	421.3	427.2	434.5	448.5	473.1	508.1	547.4	605.6	657.0	703.4	718.5
42.5°	381.5	385.0	389.5	402.1	420.8	455.7	491.6	542.8	594.3	649.8	675.2
45°	324.2	327.8	335.4	342.7	356.9	381.0	414.4	456.5	508.4	561.8	608.7
47.5°	282.9	285.1	289.6	297.5	309.6	325.5	352.6	387.8	435.8	487.8	537.7
50°	259.4	261.3	264.8	271.9	281.2	295.4	317.6	350.5	388.1	440.4	489.4
52.5°	240.8	241.6	244.2	249.0	256.4	268.3	286.6	313.8	348.8	395.4	444.2
55°	212.1	213.0	215.4	218.9	225.3	232.9	246.8	267.2	297.7	338.2	380.6
57.5°	188.4	189.1	191.0	192.4	197.7	203.8	214.6	229.1	252.2	286.6	324.4
60°	173.2	172.8	175.1	176.3	179.9	185.1	193.4	207.3	227.4	255.1	289.9
62.5°	158.5	157.8	159.8	161.4	163.4	167.8	174.6	185.5	201.9	226.9	257.0
65°	136.3	135.4	136.6	138.5	140.3	142.7	147.7	157.4	170.4	188.4	211.3
67.5°	114.1	115.1	115.3	116.2	117.3	120.5	123.9	130.8	140.0	154.4	173.8
70°	100.8	101.1	102.0	102.0	102.7	105.6	108.4	112.4	121.4	134.7	150.5
72.5°	87.6	88.6	88.2	88.9	89.5	91.4	93.4	97.3	104.9	114.8	128.2
75°	68.2	68.9	68.9	69.1	69.8	70.5	72.2	75.0	80.5	87.8	97.0
77.5°	49.7	49.8	50.1	51.0	51.0	52.1	53.3	55.6	58.3	63.3	69.0
80°	38.3	38.8	38.6	39.1	39.1	40.0	40.5	43.3	44.5	47.8	52.3
82.5°	28.1	28.6	28.5	29.2	29.6	29.8	30.4	31.6	32.8	35.7	37.5
85°	14.2	14.7	14.2	14.7	15.4	15.6	16.3	16.6	17.5	18.2	19.9
87.5°	6.9	7.4	7.4	7.5	7.9	8.0	8.0	7.7	8.4	8.4	9.0
90°	13.6	13.4	13.2	13.0	12.8	12.4	11.8	11.2	10.6	10.0	9.2
92.5°	12.5	12.5	12.4	12.4	12.3	12.0	11.4	10.8	10.2	9.6	8.8
95°	13.1	13.0	12.9	12.8	12.7	12.4	11.8	11.2	10.6	10.0	9.9
97.5°	12.7	12.6	12.5	12.4	12.3	12.2	12.1	12.1	12.0	12.0	23.2
100°	12.7	12.6	12.5	12.4	12.3	13.1	14.8	16.5	18.2	19.9	33.8
102.5°	13.1	13.0	13.0	13.0	13.0	22.2	40.7	59.1	77.6	96.1	97.9
105°	129.2	132.8	136.4	140.0	143.7	145.0	144.1	143.2	142.3	141.4	140.9
107.5°	180.0	179.6	179.2	178.9	178.5	178.1	177.6	177.2	176.7	176.3	175.6
110°	202.1	201.8	201.5	201.2	200.9	200.7	200.5	200.3	200.1	199.9	199.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	224.2	223.9	223.5	223.1	222.7	222.5	222.6	222.6	222.7	222.7	222.4
115°	256.5	256.5	256.5	256.5	256.5	256.4	256.2	256.0	255.8	255.6	255.7
117.5°	289.3	289.4	289.4	289.4	289.5	289.5	289.6	289.6	289.6	289.7	289.5
120°	310.0	310.2	310.4	310.6	310.8	310.8	310.6	310.4	310.2	310.0	310.1
122.5°	330.3	330.5	330.7	330.9	331.1	331.1	331.0	330.9	330.8	330.7	330.5
125°	360.7	360.6	360.5	360.4	360.3	360.1	359.8	359.5	359.2	358.9	359.1
127.5°	387.5	387.6	387.6	387.7	387.8	387.9	387.9	388.0	388.1	388.1	387.7
130°	405.6	405.6	405.6	405.6	405.6	405.6	405.5	405.4	405.3	405.2	404.9
132.5°	422.3	422.4	422.5	422.5	422.6	422.6	422.5	422.4	422.3	422.2	421.8
135°	447.3	447.1	446.9	446.7	446.5	446.3	446.1	445.9	445.7	445.5	445.1
137.5°	468.7	468.8	468.8	468.9	468.9	468.9	468.6	468.4	468.2	468.0	467.5
140°	483.6	483.5	483.4	483.3	483.2	483.0	482.7	482.4	482.1	481.8	481.6
142.5°	495.9	495.9	495.9	495.8	495.8	495.7	495.5	495.2	495.0	494.8	494.7
145°	514.8	514.6	514.4	514.2	514.0	513.9	513.8	513.7	513.6	513.5	513.5
147.5°	530.5	530.4	530.3	530.2	530.1	530.0	529.9	529.9	529.8	529.7	529.8
150°	540.7	540.6	540.5	540.4	540.3	540.2	540.2	540.2	540.2	540.2	540.3
152.5°	549.4	549.4	549.5	549.6	549.6	549.6	549.4	549.2	549.1	548.9	549.1
155°	561.1	561.4	561.7	562.0	562.3	562.2	561.8	561.4	561.0	560.6	560.9
157.5°	570.9	571.4	571.9	572.4	572.9	572.9	572.4	571.9	571.4	570.9	571.2
160°	577.4	578.0	578.6	579.2	579.8	579.8	579.2	578.6	578.0	577.4	577.5
162.5°	582.5	583.1	583.8	584.5	585.2	585.2	584.6	584.0	583.4	582.8	582.9
165°	589.6	590.5	591.4	592.3	593.2	593.3	592.5	591.7	590.9	590.1	590.1
167.5°	595.0	596.0	597.0	598.0	599.0	599.1	598.2	597.3	596.4	595.5	595.6
170°	598.2	599.2	600.2	601.2	602.3	602.4	601.5	600.7	599.9	599.1	599.0
172.5°	600.0	601.1	602.2	603.3	604.4	604.5	603.7	602.9	602.1	601.3	601.2
175°	602.3	603.5	604.7	605.9	607.1	607.3	606.4	605.5	604.6	603.7	603.6
177.5°	603.8	604.7	605.7	606.7	607.6	607.8	607.1	606.5	605.8	605.2	605.0
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	589.7	587.0	585.1	583.6	579.5	577.0	575.1	572.5	569.4	566.2	562.2
5°	623.1	615.1	609.2	600.2	591.7	584.6	577.2	570.6	562.6	553.8	547.4
7.5°	658.3	646.3	631.0	617.7	602.7	589.7	578.1	566.2	553.8	541.7	530.7
10°	680.7	665.3	648.2	628.1	609.2	592.4	576.8	561.6	546.9	532.3	519.7
12.5°	704.7	685.5	660.3	636.8	615.6	593.1	574.3	555.7	538.0	522.6	508.0
15°	737.0	709.3	680.2	648.7	620.8	594.5	568.7	545.3	525.4	505.0	490.8
17.5°	756.8	722.5	689.3	656.4	622.6	589.4	561.6	534.6	509.7	489.5	471.6
20°	769.9	735.8	694.4	661.5	621.3	587.2	555.0	524.9	498.9	477.4	458.9
22.5°	781.2	741.9	700.4	657.1	617.1	580.9	545.7	515.5	488.9	466.2	448.5
25°	787.4	742.2	697.2	654.1	608.7	565.9	533.9	498.4	470.0	446.1	427.2
27.5°	788.1	739.7	688.8	641.0	594.1	554.2	513.9	482.1	452.7	427.4	409.2
30°	786.0	735.6	680.9	629.1	582.0	538.7	503.6	469.1	439.0	413.9	395.0
32.5°	779.3	726.9	670.7	615.8	567.0	524.6	488.5	455.6	426.3	401.6	381.7
35°	760.2	708.3	648.5	591.4	541.5	498.7	466.0	432.6	403.3	379.9	360.7
37.5°	730.2	683.4	622.5	563.5	514.4	471.4	439.0	408.9	382.4	358.6	339.0
40°	704.1	662.9	601.8	544.3	491.3	450.4	420.1	392.4	366.1	343.6	324.9
42.5°	674.0	638.1	581.8	520.9	469.7	428.6	399.1	374.2	349.5	328.7	310.0
45°	620.3	596.6	543.6	487.3	434.0	395.2	367.1	345.3	324.5	304.1	288.5
47.5°	558.6	546.8	502.2	448.7	398.2	359.9	335.5	315.4	297.1	279.9	266.1
50°	517.1	511.4	472.9	421.3	373.0	337.0	312.4	295.1	279.5	264.4	251.3
52.5°	476.2	476.0	441.2	394.0	349.3	314.7	290.2	274.1	260.6	248.3	236.6
55°	413.7	420.3	393.1	351.0	311.0	279.7	257.7	243.3	233.8	223.7	214.9
57.5°	356.3	367.3	344.8	307.7	274.3	245.6	226.4	215.6	205.5	199.3	192.9
60°	318.8	329.2	311.7	280.5	249.0	224.4	206.1	196.4	187.7	183.4	178.9
62.5°	285.5	294.7	281.8	252.8	225.5	201.8	186.4	177.1	171.2	166.6	163.6
65°	237.9	245.7	234.5	213.5	190.0	171.1	158.6	151.2	145.6	143.7	140.3
67.5°	192.3	199.4	193.4	175.5	156.7	142.3	132.5	125.5	122.1	120.5	118.1
70°	165.2	172.3	165.9	150.3	135.8	123.8	114.5	110.5	107.0	106.3	103.0
72.5°	142.3	147.1	140.7	128.5	116.2	106.0	98.8	94.6	92.8	91.5	89.7
75°	106.7	111.0	106.7	97.3	88.5	81.4	75.3	73.6	71.5	70.8	69.6
77.5°	75.5	79.2	76.0	70.1	63.5	58.0	54.7	52.6	52.1	50.9	51.5
80°	57.7	60.1	57.0	53.0	47.8	44.0	41.7	40.5	39.1	38.6	39.5
82.5°	41.5	42.5	40.9	38.2	34.4	31.9	30.3	28.9	28.6	28.7	28.7
85°	21.5	21.3	21.1	18.7	17.5	15.9	14.9	14.7	14.4	14.9	15.4
87.5°	8.9	8.9	8.5	7.6	6.8	6.0	5.6	5.2	5.6	6.0	6.4
90°	8.4	7.6	6.7	5.8	4.7	3.6	2.5	1.4	2.5	3.6	4.7
92.5°	8.0	7.2	6.4	6.0	5.9	5.8	5.8	5.7	5.8	5.8	5.9
95°	9.8	9.7	9.6	11.2	14.7	18.1	21.5	24.9	21.5	18.1	14.7
97.5°	34.4	45.7	56.9	61.5	59.3	57.2	55.1	52.9	55.1	57.2	59.3
100°	47.7	61.6	75.5	81.6	79.8	78.0	76.1	74.3	76.1	78.0	79.8
102.5°	99.7	101.5	103.3	103.6	102.2	100.9	99.6	98.3	99.6	100.9	102.2
105°	140.4	139.9	139.4	138.8	138.2	137.6	137.0	136.4	137.0	137.6	138.2
107.5°	174.9	174.2	173.6	173.1	172.8	172.5	172.2	171.9	172.2	172.5	172.8
110°	198.7	198.0	197.4	197.0	196.7	196.4	196.1	195.8	196.1	196.4	196.7





TEST NUMBER: P332715

CATALOG NUMBER: S124DIW-S350D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	222.1	221.9	221.6	221.2	220.6	220.1	219.5	219.0	219.5	220.1	220.6
115°	255.8	255.9	256.0	255.9	255.6	255.3	255.0	254.7	255.0	255.3	255.6
117.5°	289.2	289.0	288.8	288.5	288.1	287.7	287.3	286.9	287.3	287.7	288.1
120°	310.2	310.3	310.4	310.2	309.8	309.4	309.0	308.6	309.0	309.4	309.8
122.5°	330.4	330.2	330.1	329.9	329.7	329.4	329.2	328.9	329.2	329.4	329.7
125°	359.3	359.5	359.7	359.6	359.2	358.8	358.4	358.0	358.4	358.8	359.2
127.5°	387.2	386.7	386.3	386.0	385.9	385.8	385.7	385.6	385.7	385.8	385.9
130°	404.6	404.3	404.0	403.8	403.7	403.6	403.4	403.3	403.4	403.6	403.7
132.5°	421.4	421.1	420.7	420.4	420.2	420.0	419.8	419.7	419.8	420.0	420.2
135°	444.7	444.3	443.9	443.7	443.8	443.9	444.0	444.1	444.0	443.9	443.8
137.5°	467.1	466.6	466.2	466.0	465.9	465.9	465.8	465.8	465.8	465.9	465.9
140°	481.4	481.1	480.9	480.7	480.5	480.3	480.1	479.9	480.1	480.3	480.5
142.5°	494.6	494.4	494.3	494.1	493.7	493.4	493.0	492.6	493.0	493.4	493.7
145°	513.5	513.5	513.5	513.3	513.0	512.7	512.4	512.1	512.4	512.7	513.0
147.5°	529.9	530.0	530.1	529.9	529.3	528.7	528.2	527.6	528.2	528.7	529.3
150°	540.4	540.5	540.6	540.5	540.1	539.7	539.3	538.9	539.3	539.7	540.1
152.5°	549.3	549.5	549.6	549.6	549.2	548.9	548.6	548.3	548.6	548.9	549.2
155°	561.2	561.5	561.8	561.9	561.8	561.7	561.6	561.5	561.6	561.7	561.8
157.5°	571.5	571.9	572.2	572.4	572.5	572.5	572.6	572.7	572.6	572.5	572.5
160°	577.6	577.7	577.8	578.0	578.3	578.6	578.9	579.2	578.9	578.6	578.3
162.5°	583.0	583.1	583.2	583.5	583.8	584.2	584.6	585.0	584.6	584.2	583.8
165°	590.1	590.1	590.1	590.3	590.8	591.3	591.8	592.3	591.8	591.3	590.8
167.5°	595.6	595.7	595.7	596.0	596.6	597.1	597.6	598.1	597.6	597.1	596.6
170°	598.9	598.8	598.7	599.0	599.6	600.2	600.8	601.4	600.8	600.2	599.6
172.5°	601.1	601.0	600.9	601.2	601.8	602.4	603.0	603.6	603.0	602.4	601.8
175°	603.5	603.4	603.3	603.5	604.1	604.7	605.3	605.9	605.3	604.7	604.1
177.5°	604.9	604.7	604.6	604.8	605.3	605.9	606.5	607.0	606.5	605.9	605.3
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



TEST NUMBER: P332715

CATALOG NUMBER: S124DIW-S350D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	560.3	558.6	556.2	552.8	549.9	546.9	546.1	545.0	547.3	545.4	544.8
5°	542.0	537.0	530.6	523.3	519.0	512.9	511.7	509.3	506.9	506.7	504.3
7.5°	522.5	515.2	506.8	499.4	492.5	485.7	481.3	480.4	476.9	474.8	472.5
10°	510.0	501.0	491.3	484.2	476.2	469.1	464.1	461.3	458.9	456.3	453.9
12.5°	495.3	485.7	477.7	470.0	460.5	455.1	446.9	442.0	441.5	441.5	435.4
15°	478.1	468.6	456.3	445.4	440.2	429.8	425.3	419.6	416.1	412.5	409.7
17.5°	458.4	446.6	437.0	424.5	414.6	406.3	400.4	397.0	391.6	386.6	383.0
20°	446.1	433.6	423.4	410.1	399.3	389.1	384.1	379.4	375.4	371.1	367.1
22.5°	433.6	420.5	408.1	395.2	385.1	374.3	369.5	363.1	359.3	356.9	352.9
25°	413.9	399.7	385.5	373.2	362.8	353.3	347.0	342.0	337.7	335.8	333.2
27.5°	392.5	378.4	364.7	350.7	338.9	332.0	326.9	323.2	320.7	318.2	317.0
30°	378.9	364.2	349.6	336.5	325.7	318.8	314.1	311.5	309.6	308.4	307.2
32.5°	365.1	350.6	335.2	323.3	313.5	307.4	303.8	301.2	300.3	299.9	299.4
35°	342.9	328.3	314.1	303.4	294.2	291.8	288.7	287.3	286.8	288.5	289.2
37.5°	321.5	307.9	294.8	284.5	278.4	275.0	273.9	274.0	275.7	277.1	278.8
40°	307.7	294.4	282.1	273.1	267.4	265.3	264.8	266.0	267.9	269.6	271.5
42.5°	294.2	281.2	270.0	261.6	257.6	255.6	255.9	257.1	259.8	261.8	264.6
45°	273.4	262.5	251.6	244.7	241.4	241.9	241.9	244.0	246.6	249.7	252.8
47.5°	253.7	242.7	233.8	228.0	226.3	225.9	227.2	230.0	233.7	237.5	241.8
50°	240.5	230.0	222.2	217.0	215.1	215.8	217.7	220.3	224.8	229.6	234.1
52.5°	227.0	217.5	210.3	205.5	204.1	205.4	207.3	211.4	215.4	220.5	225.9
55°	206.1	198.1	192.4	188.9	188.4	189.1	191.2	195.7	201.4	207.8	213.0
57.5°	185.4	178.6	173.4	171.0	171.2	171.9	175.4	180.7	186.8	193.6	200.3
60°	171.3	165.2	160.9	159.0	159.3	160.7	165.0	169.9	177.5	184.1	191.2
62.5°	158.1	152.7	148.6	146.9	146.6	149.7	153.8	158.9	166.5	173.9	181.6
65°	136.8	132.5	129.2	128.3	129.0	131.4	136.6	143.4	149.8	157.6	165.7
67.5°	116.0	112.5	110.2	110.6	111.5	115.0	119.3	125.2	132.5	140.6	148.5
70°	102.7	99.4	97.5	97.7	99.2	103.4	107.2	113.1	120.9	129.2	135.8
72.5°	89.1	86.9	85.2	86.2	87.6	90.5	95.3	101.2	108.1	115.8	122.8
75°	68.4	68.4	67.5	68.2	70.3	73.1	76.7	82.8	89.7	95.9	101.5
77.5°	50.7	50.2	50.8	51.7	52.9	56.3	60.4	64.8	69.9	76.1	80.8
80°	38.8	39.1	40.2	41.7	42.1	44.7	49.0	53.0	57.0	62.2	66.7
82.5°	29.2	29.4	30.0	31.8	32.3	35.1	37.8	41.8	45.5	49.0	52.7
85°	15.9	15.9	17.0	17.8	18.9	20.8	22.5	24.9	28.2	30.5	34.1
87.5°	7.2	7.4	8.3	8.9	9.6	10.7	11.2	13.4	14.3	15.4	17.1
90°	5.8	6.7	7.6	8.4	9.2	10.0	10.6	11.2	11.8	12.4	12.8
92.5°	6.0	6.4	7.2	8.0	8.8	9.6	10.2	10.8	11.4	12.0	12.3
95°	11.2	9.6	9.7	9.8	9.9	10.0	10.6	11.2	11.8	12.4	12.7
97.5°	61.5	56.9	45.7	34.4	23.2	12.0	12.0	12.1	12.1	12.2	12.3
100°	81.6	75.5	61.6	47.7	33.8	19.9	18.2	16.5	14.8	13.1	12.3
102.5°	103.6	103.3	101.5	99.7	97.9	96.1	77.6	59.1	40.7	22.2	13.0
105°	138.8	139.4	139.9	140.4	140.9	141.4	142.3	143.2	144.1	145.0	143.7
107.5°	173.1	173.6	174.2	174.9	175.6	176.3	176.7	177.2	177.6	178.1	178.5
110°	197.0	197.4	198.0	198.7	199.3	199.9	200.1	200.3	200.5	200.7	200.9



TEST NUMBER: P332715

CATALOG NUMBER: S124DIW-S350D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	221.2	221.6	221.9	222.1	222.4	222.7	222.7	222.6	222.6	222.5	222.7
115°	255.9	256.0	255.9	255.8	255.7	255.6	255.8	256.0	256.2	256.4	256.5
117.5°	288.5	288.8	289.0	289.2	289.5	289.7	289.6	289.6	289.6	289.5	289.5
120°	310.2	310.4	310.3	310.2	310.1	310.0	310.2	310.4	310.6	310.8	310.8
122.5°	329.9	330.1	330.2	330.4	330.5	330.7	330.8	330.9	331.0	331.1	331.1
125°	359.6	359.7	359.5	359.3	359.1	358.9	359.2	359.5	359.8	360.1	360.3
127.5°	386.0	386.3	386.7	387.2	387.7	388.1	388.1	388.0	387.9	387.9	387.8
130°	403.8	404.0	404.3	404.6	404.9	405.2	405.3	405.4	405.5	405.6	405.6
132.5°	420.4	420.7	421.1	421.4	421.8	422.2	422.3	422.4	422.5	422.6	422.6
135°	443.7	443.9	444.3	444.7	445.1	445.5	445.7	445.9	446.1	446.3	446.5
137.5°	466.0	466.2	466.6	467.1	467.5	468.0	468.2	468.4	468.6	468.9	468.9
140°	480.7	480.9	481.1	481.4	481.6	481.8	482.1	482.4	482.7	483.0	483.2
142.5°	494.1	494.3	494.4	494.6	494.7	494.8	495.0	495.2	495.5	495.7	495.8
145°	513.3	513.5	513.5	513.5	513.5	513.5	513.6	513.7	513.8	513.9	514.0
147.5°	529.9	530.1	530.0	529.9	529.8	529.7	529.8	529.9	529.9	530.0	530.1
150°	540.5	540.6	540.5	540.4	540.3	540.2	540.2	540.2	540.2	540.2	540.3
152.5°	549.6	549.6	549.5	549.3	549.1	548.9	549.1	549.2	549.4	549.6	549.6
155°	561.9	561.8	561.5	561.2	560.9	560.6	561.0	561.4	561.8	562.2	562.3
157.5°	572.4	572.2	571.9	571.5	571.2	570.9	571.4	571.9	572.4	572.9	572.9
160°	578.0	577.8	577.7	577.6	577.5	577.4	578.0	578.6	579.2	579.8	579.8
162.5°	583.5	583.2	583.1	583.0	582.9	582.8	583.4	584.0	584.6	585.2	585.2
165°	590.3	590.1	590.1	590.1	590.1	590.1	590.9	591.7	592.5	593.3	593.2
167.5°	596.0	595.7	595.7	595.6	595.6	595.5	596.4	597.3	598.2	599.1	599.0
170°	599.0	598.7	598.8	598.9	599.0	599.1	599.9	600.7	601.5	602.4	602.3
172.5°	601.2	600.9	601.0	601.1	601.2	601.3	602.1	602.9	603.7	604.5	604.4
175°	603.5	603.3	603.4	603.5	603.6	603.7	604.6	605.5	606.4	607.3	607.1
177.5°	604.8	604.6	604.7	604.9	605.0	605.2	605.8	606.5	607.1	607.8	607.6
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



TEST NUMBER: P332715

CATALOG NUMBER: S124DIW-S350D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	544.4	544.1	542.7	542.5	542.7	544.1	544.4	544.8	545.4	547.3	545.0
5°	502.9	501.7	501.0	503.6	501.0	501.7	502.9	504.3	506.7	506.9	509.3
7.5°	471.6	470.7	468.6	467.9	468.6	470.7	471.6	472.5	474.8	476.9	480.4
10°	451.6	450.6	448.7	448.2	448.7	450.6	451.6	453.9	456.3	458.9	461.3
12.5°	432.2	430.4	430.0	430.5	430.0	430.4	432.2	435.4	441.5	441.5	442.0
15°	406.6	405.6	403.0	403.8	403.0	405.6	406.6	409.7	412.5	416.1	419.6
17.5°	381.3	380.2	377.0	379.8	377.0	380.2	381.3	383.0	386.6	391.6	397.0
20°	365.4	363.5	361.9	361.6	361.9	363.5	365.4	367.1	371.1	375.4	379.4
22.5°	350.3	348.6	348.4	346.9	348.4	348.6	350.3	352.9	356.9	359.3	363.1
25°	331.3	329.7	329.2	328.0	329.2	329.7	331.3	333.2	335.8	337.7	342.0
27.5°	316.8	316.0	315.1	315.5	315.1	316.0	316.8	317.0	318.2	320.7	323.2
30°	307.9	307.7	307.2	307.2	307.2	307.7	307.9	307.2	308.4	309.6	311.5
32.5°	300.5	300.5	300.8	300.8	300.8	300.5	300.5	299.4	299.9	300.3	301.2
35°	290.2	290.9	291.3	290.6	291.3	290.9	290.2	289.2	288.5	286.8	287.3
37.5°	280.8	281.5	282.2	283.0	282.2	281.5	280.8	278.8	277.1	275.7	274.0
40°	273.6	275.2	275.7	276.9	275.7	275.2	273.6	271.5	269.6	267.9	266.0
42.5°	266.8	268.6	269.8	270.1	269.8	268.6	266.8	264.6	261.8	259.8	257.1
45°	256.3	258.2	259.9	259.9	259.9	258.2	256.3	252.8	249.7	246.6	244.0
47.5°	245.5	248.2	249.9	250.3	249.9	248.2	245.5	241.8	237.5	233.7	230.0
50°	238.1	241.4	243.1	244.2	243.1	241.4	238.1	234.1	229.6	224.8	220.3
52.5°	230.9	234.2	236.4	237.0	236.4	234.2	230.9	225.9	220.5	215.4	211.4
55°	218.4	223.2	225.8	226.7	225.8	223.2	218.4	213.0	207.8	201.4	195.7
57.5°	206.7	211.1	214.1	214.8	214.1	211.1	206.7	200.3	193.6	186.8	180.7
60°	197.6	202.4	206.1	206.8	206.1	202.4	197.6	191.2	184.1	177.5	169.9
62.5°	188.3	193.3	196.7	198.5	196.7	193.3	188.3	181.6	173.9	166.5	158.9
65°	172.3	177.3	180.6	181.3	180.6	177.3	172.3	165.7	157.6	149.8	143.4
67.5°	154.8	159.8	161.9	163.3	161.9	159.8	154.8	148.5	140.6	132.5	125.2
70°	142.5	146.5	148.9	150.0	148.9	146.5	142.5	135.8	129.2	120.9	113.1
72.5°	128.5	132.7	135.4	135.7	135.4	132.7	128.5	122.8	115.8	108.1	101.2
75°	107.0	110.8	112.2	112.2	112.2	110.8	107.0	101.5	95.9	89.7	82.8
77.5°	84.7	86.6	88.4	88.8	88.4	86.6	84.7	80.8	76.1	69.9	64.8
80°	70.3	71.5	72.9	72.9	72.9	71.5	70.3	66.7	62.2	57.0	53.0
82.5°	55.5	56.5	57.9	57.7	57.9	56.5	55.5	52.7	49.0	45.5	41.8
85°	33.6	35.7	35.5	35.0	35.5	35.7	33.6	34.1	30.5	28.2	24.9
87.5°	17.7	18.0	18.6	19.0	18.6	18.0	17.7	17.1	15.4	14.3	13.4
90°	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.4	11.8	11.2
92.5°	12.4	12.4	12.5	12.5	12.5	12.4	12.4	12.3	12.0	11.4	10.8
95°	12.8	12.9	13.0	13.1	13.0	12.9	12.8	12.7	12.4	11.8	11.2
97.5°	12.4	12.5	12.6	12.7	12.6	12.5	12.4	12.3	12.2	12.1	12.1
100°	12.4	12.5	12.6	12.7	12.6	12.5	12.4	12.3	13.1	14.8	16.5
102.5°	13.0	13.0	13.0	13.1	13.0	13.0	13.0	13.0	22.2	40.7	59.1
105°	140.0	136.4	132.8	129.2	132.8	136.4	140.0	143.7	145.0	144.1	143.2
107.5°	178.9	179.2	179.6	180.0	179.6	179.2	178.9	178.5	178.1	177.6	177.2
110°	201.2	201.5	201.8	202.1	201.8	201.5	201.2	200.9	200.7	200.5	200.3



TEST NUMBER: P332715

CATALOG NUMBER: S124DIW-S350D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	223.1	223.5	223.9	224.2	223.9	223.5	223.1	222.7	222.5	222.6	222.6
115°	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.4	256.2	256.0
117.5°	289.4	289.4	289.4	289.3	289.4	289.4	289.4	289.5	289.5	289.6	289.6
120°	310.6	310.4	310.2	310.0	310.2	310.4	310.6	310.8	310.8	310.6	310.4
122.5°	330.9	330.7	330.5	330.3	330.5	330.7	330.9	331.1	331.1	331.0	330.9
125°	360.4	360.5	360.6	360.7	360.6	360.5	360.4	360.3	360.1	359.8	359.5
127.5°	387.7	387.6	387.6	387.5	387.6	387.6	387.7	387.8	387.9	387.9	388.0
130°	405.6	405.6	405.6	405.6	405.6	405.6	405.6	405.6	405.6	405.5	405.4
132.5°	422.5	422.5	422.4	422.3	422.4	422.5	422.5	422.6	422.6	422.5	422.4
135°	446.7	446.9	447.1	447.3	447.1	446.9	446.7	446.5	446.3	446.1	445.9
137.5°	468.9	468.8	468.8	468.7	468.8	468.8	468.9	468.9	468.9	468.6	468.4
140°	483.3	483.4	483.5	483.6	483.5	483.4	483.3	483.2	483.0	482.7	482.4
142.5°	495.8	495.9	495.9	495.9	495.9	495.9	495.8	495.8	495.7	495.5	495.2
145°	514.2	514.4	514.6	514.8	514.6	514.4	514.2	514.0	513.9	513.8	513.7
147.5°	530.2	530.3	530.4	530.5	530.4	530.3	530.2	530.1	530.0	529.9	529.9
150°	540.4	540.5	540.6	540.7	540.6	540.5	540.4	540.3	540.2	540.2	540.2
152.5°	549.6	549.5	549.4	549.4	549.4	549.5	549.6	549.6	549.6	549.4	549.2
155°	562.0	561.7	561.4	561.1	561.4	561.7	562.0	562.3	562.2	561.8	561.4
157.5°	572.4	571.9	571.4	570.9	571.4	571.9	572.4	572.9	572.9	572.4	571.9
160°	579.2	578.6	578.0	577.4	578.0	578.6	579.2	579.8	579.8	579.2	578.6
162.5°	584.5	583.8	583.1	582.5	583.1	583.8	584.5	585.2	585.2	584.6	584.0
165°	592.3	591.4	590.5	589.6	590.5	591.4	592.3	593.2	593.3	592.5	591.7
167.5°	598.0	597.0	596.0	595.0	596.0	597.0	598.0	599.0	599.1	598.2	597.3
170°	601.2	600.2	599.2	598.2	599.2	600.2	601.2	602.3	602.4	601.5	600.7
172.5°	603.3	602.2	601.1	600.0	601.1	602.2	603.3	604.4	604.5	603.7	602.9
175°	605.9	604.7	603.5	602.3	603.5	604.7	605.9	607.1	607.3	606.4	605.5
177.5°	606.7	605.7	604.7	603.8	604.7	605.7	606.7	607.6	607.8	607.1	606.5
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



TEST NUMBER: P332715

CATALOG NUMBER: S124DIW-S350D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	546.1	546.9	549.9	552.8	556.2	558.6	560.3	562.2	566.2	569.4	572.5
5°	511.7	512.9	519.0	523.3	530.6	537.0	542.0	547.4	553.8	562.6	570.6
7.5°	481.3	485.7	492.5	499.4	506.8	515.2	522.5	530.7	541.7	553.8	566.2
10°	464.1	469.1	476.2	484.2	491.3	501.0	510.0	519.7	532.3	546.9	561.6
12.5°	446.9	455.1	460.5	470.0	477.7	485.7	495.3	508.0	522.6	538.0	555.7
15°	425.3	429.8	440.2	445.4	456.3	468.6	478.1	490.8	505.0	525.4	545.3
17.5°	400.4	406.3	414.6	424.5	437.0	446.6	458.4	471.6	489.5	509.7	534.6
20°	384.1	389.1	399.3	410.1	423.4	433.6	446.1	458.9	477.4	498.9	524.9
22.5°	369.5	374.3	385.1	395.2	408.1	420.5	433.6	448.5	466.2	488.9	515.5
25°	347.0	353.3	362.8	373.2	385.5	399.7	413.9	427.2	446.1	470.0	498.4
27.5°	326.9	332.0	338.9	350.7	364.7	378.4	392.5	409.2	427.4	452.7	482.1
30°	314.1	318.8	325.7	336.5	349.6	364.2	378.9	395.0	413.9	439.0	469.1
32.5°	303.8	307.4	313.5	323.3	335.2	350.6	365.1	381.7	401.6	426.3	455.6
35°	288.7	291.8	294.2	303.4	314.1	328.3	342.9	360.7	379.9	403.3	432.6
37.5°	273.9	275.0	278.4	284.5	294.8	307.9	321.5	339.0	358.6	382.4	408.9
40°	264.8	265.3	267.4	273.1	282.1	294.4	307.7	324.9	343.6	366.1	392.4
42.5°	255.9	255.6	257.6	261.6	270.0	281.2	294.2	310.0	328.7	349.5	374.2
45°	241.9	241.9	241.4	244.7	251.6	262.5	273.4	288.5	304.1	324.5	345.3
47.5°	227.2	225.9	226.3	228.0	233.8	242.7	253.7	266.1	279.9	297.1	315.4
50°	217.7	215.8	215.1	217.0	222.2	230.0	240.5	251.3	264.4	279.5	295.1
52.5°	207.3	205.4	204.1	205.5	210.3	217.5	227.0	236.6	248.3	260.6	274.1
55°	191.2	189.1	188.4	188.9	192.4	198.1	206.1	214.9	223.7	233.8	243.3
57.5°	175.4	171.9	171.2	171.0	173.4	178.6	185.4	192.9	199.3	205.5	215.6
60°	165.0	160.7	159.3	159.0	160.9	165.2	171.3	178.9	183.4	187.7	196.4
62.5°	153.8	149.7	146.6	146.9	148.6	152.7	158.1	163.6	166.6	171.2	177.1
65°	136.6	131.4	129.0	128.3	129.2	132.5	136.8	140.3	143.7	145.6	151.2
67.5°	119.3	115.0	111.5	110.6	110.2	112.5	116.0	118.1	120.5	122.1	125.5
70°	107.2	103.4	99.2	97.7	97.5	99.4	102.7	103.0	106.3	107.0	110.5
72.5°	95.3	90.5	87.6	86.2	85.2	86.9	89.1	89.7	91.5	92.8	94.6
75°	76.7	73.1	70.3	68.2	67.5	68.4	68.4	69.6	70.8	71.5	73.6
77.5°	60.4	56.3	52.9	51.7	50.8	50.2	50.7	51.5	50.9	52.1	52.6
80°	49.0	44.7	42.1	41.7	40.2	39.1	38.8	39.5	38.6	39.1	40.5
82.5°	37.8	35.1	32.3	31.8	30.0	29.4	29.2	28.7	28.7	28.6	28.9
85°	22.5	20.8	18.9	17.8	17.0	15.9	15.9	15.4	14.9	14.4	14.7
87.5°	11.2	10.7	9.6	8.9	8.3	7.4	7.2	6.4	6.0	5.6	5.2
90°	10.6	10.0	9.2	8.4	7.6	6.7	5.8	4.7	3.6	2.5	1.4
92.5°	10.2	9.6	8.8	8.0	7.2	6.4	6.0	5.9	5.8	5.8	5.7
95°	10.6	10.0	9.9	9.8	9.7	9.6	11.2	14.7	18.1	21.5	24.9
97.5°	12.0	12.0	23.2	34.4	45.7	56.9	61.5	59.3	57.2	55.1	52.9
100°	18.2	19.9	33.8	47.7	61.6	75.5	81.6	79.8	78.0	76.1	74.3
102.5°	77.6	96.1	97.9	99.7	101.5	103.3	103.6	102.2	100.9	99.6	98.3
105°	142.3	141.4	140.9	140.4	139.9	139.4	138.8	138.2	137.6	137.0	136.4
107.5°	176.7	176.3	175.6	174.9	174.2	173.6	173.1	172.8	172.5	172.2	171.9
110°	200.1	199.9	199.3	198.7	198.0	197.4	197.0	196.7	196.4	196.1	195.8



TEST NUMBER: P332715

CATALOG NUMBER: S124DIW-S350D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	222.7	222.7	222.4	222.1	221.9	221.6	221.2	220.6	220.1	219.5	219.0
115°	255.8	255.6	255.7	255.8	255.9	256.0	255.9	255.6	255.3	255.0	254.7
117.5°	289.6	289.7	289.5	289.2	289.0	288.8	288.5	288.1	287.7	287.3	286.9
120°	310.2	310.0	310.1	310.2	310.3	310.4	310.2	309.8	309.4	309.0	308.6
122.5°	330.8	330.7	330.5	330.4	330.2	330.1	329.9	329.7	329.4	329.2	328.9
125°	359.2	358.9	359.1	359.3	359.5	359.7	359.6	359.2	358.8	358.4	358.0
127.5°	388.1	388.1	387.7	387.2	386.7	386.3	386.0	385.9	385.8	385.7	385.6
130°	405.3	405.2	404.9	404.6	404.3	404.0	403.8	403.7	403.6	403.4	403.3
132.5°	422.3	422.2	421.8	421.4	421.1	420.7	420.4	420.2	420.0	419.8	419.7
135°	445.7	445.5	445.1	444.7	444.3	443.9	443.7	443.8	443.9	444.0	444.1
137.5°	468.2	468.0	467.5	467.1	466.6	466.2	466.0	465.9	465.9	465.8	465.8
140°	482.1	481.8	481.6	481.4	481.1	480.9	480.7	480.5	480.3	480.1	479.9
142.5°	495.0	494.8	494.7	494.6	494.4	494.3	494.1	493.7	493.4	493.0	492.6
145°	513.6	513.5	513.5	513.5	513.5	513.5	513.3	513.0	512.7	512.4	512.1
147.5°	529.8	529.7	529.8	529.9	530.0	530.1	529.9	529.3	528.7	528.2	527.6
150°	540.2	540.2	540.3	540.4	540.5	540.6	540.5	540.1	539.7	539.3	538.9
152.5°	549.1	548.9	549.1	549.3	549.5	549.6	549.6	549.2	548.9	548.6	548.3
155°	561.0	560.6	560.9	561.2	561.5	561.8	561.9	561.8	561.7	561.6	561.5
157.5°	571.4	570.9	571.2	571.5	571.9	572.2	572.4	572.5	572.5	572.6	572.7
160°	578.0	577.4	577.5	577.6	577.7	577.8	578.0	578.3	578.6	578.9	579.2
162.5°	583.4	582.8	582.9	583.0	583.1	583.2	583.5	583.8	584.2	584.6	585.0
165°	590.9	590.1	590.1	590.1	590.1	590.1	590.3	590.8	591.3	591.8	592.3
167.5°	596.4	595.5	595.6	595.6	595.7	595.7	596.0	596.6	597.1	597.6	598.1
170°	599.9	599.1	599.0	598.9	598.8	598.7	599.0	599.6	600.2	600.8	601.4
172.5°	602.1	601.3	601.2	601.1	601.0	600.9	601.2	601.8	602.4	603.0	603.6
175°	604.6	603.7	603.6	603.5	603.4	603.3	603.5	604.1	604.7	605.3	605.9
177.5°	605.8	605.2	605.0	604.9	604.7	604.6	604.8	605.3	605.9	606.5	607.0
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



TEST NUMBER: P332715

CATALOG NUMBER: S124DIW-S350D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	575.1	577.0	579.5	583.6	585.1	587.0	589.7	589.5	590.2	593.1	599.1
5°	577.2	584.6	591.7	600.2	609.2	615.1	623.1	628.1	633.1	639.5	650.4
7.5°	578.1	589.7	602.7	617.7	631.0	646.3	658.3	669.6	679.8	693.2	706.2
10°	576.8	592.4	609.2	628.1	648.2	665.3	680.7	698.2	713.1	729.4	744.1
12.5°	574.3	593.1	615.6	636.8	660.3	685.5	704.7	722.4	742.2	761.0	783.7
15°	568.7	594.5	620.8	648.7	680.2	709.3	737.0	759.9	781.2	809.4	839.0
17.5°	561.6	589.4	622.6	656.4	689.3	722.5	756.8	791.3	818.2	853.2	876.3
20°	555.0	587.2	621.3	661.5	694.4	735.8	769.9	803.2	840.2	875.0	902.7
22.5°	545.7	580.9	617.1	657.1	700.4	741.9	781.2	817.4	854.4	892.2	925.7
25°	533.9	565.9	608.7	654.1	697.2	742.2	787.4	832.8	872.6	912.6	943.8
27.5°	513.9	554.2	594.1	641.0	688.8	739.7	788.1	835.6	877.3	910.2	929.5
30°	503.6	538.7	582.0	629.1	680.9	735.6	786.0	832.6	871.4	897.7	905.5
32.5°	488.5	524.6	567.0	615.8	670.7	726.9	779.3	823.3	855.7	869.5	860.1
35°	466.0	498.7	541.5	591.4	648.5	708.3	760.2	797.3	813.9	800.9	768.5
37.5°	439.0	471.4	514.4	563.5	622.5	683.4	730.2	757.0	751.5	719.1	670.8
40°	420.1	450.4	491.3	544.3	601.8	662.9	704.1	718.5	703.4	657.0	605.6
42.5°	399.1	428.6	469.7	520.9	581.8	638.1	674.0	675.2	649.8	594.3	542.8
45°	367.1	395.2	434.0	487.3	543.6	596.6	620.3	608.7	561.8	508.4	456.5
47.5°	335.5	359.9	398.2	448.7	502.2	546.8	558.6	537.7	487.8	435.8	387.8
50°	312.4	337.0	373.0	421.3	472.9	511.4	517.1	489.4	440.4	388.1	350.5
52.5°	290.2	314.7	349.3	394.0	441.2	476.0	476.2	444.2	395.4	348.8	313.8
55°	257.7	279.7	311.0	351.0	393.1	420.3	413.7	380.6	338.2	297.7	267.2
57.5°	226.4	245.6	274.3	307.7	344.8	367.3	356.3	324.4	286.6	252.2	229.1
60°	206.1	224.4	249.0	280.5	311.7	329.2	318.8	289.9	255.1	227.4	207.3
62.5°	186.4	201.8	225.5	252.8	281.8	294.7	285.5	257.0	226.9	201.9	185.5
65°	158.6	171.1	190.0	213.5	234.5	245.7	237.9	211.3	188.4	170.4	157.4
67.5°	132.5	142.3	156.7	175.5	193.4	199.4	192.3	173.8	154.4	140.0	130.8
70°	114.5	123.8	135.8	150.3	165.9	172.3	165.2	150.5	134.7	121.4	112.4
72.5°	98.8	106.0	116.2	128.5	140.7	147.1	142.3	128.2	114.8	104.9	97.3
75°	75.3	81.4	88.5	97.3	106.7	111.0	106.7	97.0	87.8	80.5	75.0
77.5°	54.7	58.0	63.5	70.1	76.0	79.2	75.5	69.0	63.3	58.3	55.6
80°	41.7	44.0	47.8	53.0	57.0	60.1	57.7	52.3	47.8	44.5	43.3
82.5°	30.3	31.9	34.4	38.2	40.9	42.5	41.5	37.5	35.7	32.8	31.6
85°	14.9	15.9	17.5	18.7	21.1	21.3	21.5	19.9	18.2	17.5	16.6
87.5°	5.6	6.0	6.8	7.6	8.5	8.9	8.9	9.0	8.4	8.4	7.7
90°	2.5	3.6	4.7	5.8	6.7	7.6	8.4	9.2	10.0	10.6	11.2
92.5°	5.8	5.8	5.9	6.0	6.4	7.2	8.0	8.8	9.6	10.2	10.8
95°	21.5	18.1	14.7	11.2	9.6	9.7	9.8	9.9	10.0	10.6	11.2
97.5°	55.1	57.2	59.3	61.5	56.9	45.7	34.4	23.2	12.0	12.0	12.1
100°	76.1	78.0	79.8	81.6	75.5	61.6	47.7	33.8	19.9	18.2	16.5
102.5°	99.6	100.9	102.2	103.6	103.3	101.5	99.7	97.9	96.1	77.6	59.1
105°	137.0	137.6	138.2	138.8	139.4	139.9	140.4	140.9	141.4	142.3	143.2
107.5°	172.2	172.5	172.8	173.1	173.6	174.2	174.9	175.6	176.3	176.7	177.2
110°	196.1	196.4	196.7	197.0	197.4	198.0	198.7	199.3	199.9	200.1	200.3





TEST NUMBER: P332715

CATALOG NUMBER: S124DIW-S350D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	219.5	220.1	220.6	221.2	221.6	221.9	222.1	222.4	222.7	222.7	222.6
115°	255.0	255.3	255.6	255.9	256.0	255.9	255.8	255.7	255.6	255.8	256.0
117.5°	287.3	287.7	288.1	288.5	288.8	289.0	289.2	289.5	289.7	289.6	289.6
120°	309.0	309.4	309.8	310.2	310.4	310.3	310.2	310.1	310.0	310.2	310.4
122.5°	329.2	329.4	329.7	329.9	330.1	330.2	330.4	330.5	330.7	330.8	330.9
125°	358.4	358.8	359.2	359.6	359.7	359.5	359.3	359.1	358.9	359.2	359.5
127.5°	385.7	385.8	385.9	386.0	386.3	386.7	387.2	387.7	388.1	388.1	388.0
130°	403.4	403.6	403.7	403.8	404.0	404.3	404.6	404.9	405.2	405.3	405.4
132.5°	419.8	420.0	420.2	420.4	420.7	421.1	421.4	421.8	422.2	422.3	422.4
135°	444.0	443.9	443.8	443.7	443.9	444.3	444.7	445.1	445.5	445.7	445.9
137.5°	465.8	465.9	465.9	466.0	466.2	466.6	467.1	467.5	468.0	468.2	468.4
140°	480.1	480.3	480.5	480.7	480.9	481.1	481.4	481.6	481.8	482.1	482.4
142.5°	493.0	493.4	493.7	494.1	494.3	494.4	494.6	494.7	494.8	495.0	495.2
145°	512.4	512.7	513.0	513.3	513.5	513.5	513.5	513.5	513.5	513.6	513.7
147.5°	528.2	528.7	529.3	529.9	530.1	530.0	529.9	529.8	529.7	529.8	529.9
150°	539.3	539.7	540.1	540.5	540.6	540.5	540.4	540.3	540.2	540.2	540.2
152.5°	548.6	548.9	549.2	549.6	549.6	549.5	549.3	549.1	548.9	549.1	549.2
155°	561.6	561.7	561.8	561.9	561.8	561.5	561.2	560.9	560.6	561.0	561.4
157.5°	572.6	572.5	572.5	572.4	572.2	571.9	571.5	571.2	570.9	571.4	571.9
160°	578.9	578.6	578.3	578.0	577.8	577.7	577.6	577.5	577.4	578.0	578.6
162.5°	584.6	584.2	583.8	583.5	583.2	583.1	583.0	582.9	582.8	583.4	584.0
165°	591.8	591.3	590.8	590.3	590.1	590.1	590.1	590.1	590.1	590.9	591.7
167.5°	597.6	597.1	596.6	596.0	595.7	595.7	595.6	595.6	595.5	596.4	597.3
170°	600.8	600.2	599.6	599.0	598.7	598.8	598.9	599.0	599.1	599.9	600.7
172.5°	603.0	602.4	601.8	601.2	600.9	601.0	601.1	601.2	601.3	602.1	602.9
175°	605.3	604.7	604.1	603.5	603.3	603.4	603.5	603.6	603.7	604.6	605.5
177.5°	606.5	605.9	605.3	604.8	604.6	604.7	604.9	605.0	605.2	605.8	606.5
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	602.2	602.6	604.3	605.6	606.0	607.9	608.0
5°	655.1	659.1	666.9	667.6	668.8	675.0	670.2
7.5°	717.1	727.3	734.1	740.2	742.3	745.0	744.5
10°	756.9	772.0	779.6	791.7	792.1	795.2	793.3
12.5°	796.8	814.4	828.2	830.5	840.6	842.2	844.8
15°	853.4	872.1	891.3	898.2	912.1	915.4	920.6
17.5°	906.6	925.7	939.2	956.9	962.7	970.3	965.1
20°	935.8	956.6	973.7	987.6	993.5	997.8	997.3
22.5°	953.4	974.4	988.2	998.8	1004.3	1006.1	1006.0
25°	964.4	976.5	980.8	984.8	978.6	976.5	977.4
27.5°	933.7	930.6	919.5	904.9	889.8	877.8	871.2
30°	891.5	873.1	856.3	826.9	811.8	802.8	794.7
32.5°	831.7	802.4	770.1	743.2	726.0	712.7	710.7
35°	729.2	685.2	645.6	612.7	595.7	581.3	577.9
37.5°	619.9	574.2	538.6	509.6	491.3	481.1	471.6
40°	547.4	508.1	473.1	448.5	434.5	427.2	421.3
42.5°	491.6	455.7	420.8	402.1	389.5	385.0	381.5
45°	414.4	381.0	356.9	342.7	335.4	327.8	324.2
47.5°	352.6	325.5	309.6	297.5	289.6	285.1	282.9
50°	317.6	295.4	281.2	271.9	264.8	261.3	259.4
52.5°	286.6	268.3	256.4	249.0	244.2	241.6	240.8
55°	246.8	232.9	225.3	218.9	215.4	213.0	212.1
57.5°	214.6	203.8	197.7	192.4	191.0	189.1	188.4
60°	193.4	185.1	179.9	176.3	175.1	172.8	173.2
62.5°	174.6	167.8	163.4	161.4	159.8	157.8	158.5
65°	147.7	142.7	140.3	138.5	136.6	135.4	136.3
67.5°	123.9	120.5	117.3	116.2	115.3	115.1	114.1
70°	108.4	105.6	102.7	102.0	102.0	101.1	100.8
72.5°	93.4	91.4	89.5	88.9	88.2	88.6	87.6
75°	72.2	70.5	69.8	69.1	68.9	68.9	68.2
77.5°	53.3	52.1	51.0	51.0	50.1	49.8	49.7
80°	40.5	40.0	39.1	39.1	38.6	38.8	38.3
82.5°	30.4	29.8	29.6	29.2	28.5	28.6	28.1
85°	16.3	15.6	15.4	14.7	14.2	14.7	14.2
87.5°	8.0	8.0	7.9	7.5	7.4	7.4	6.9
90°	11.8	12.4	12.8	13.0	13.2	13.4	13.6
92.5°	11.4	12.0	12.3	12.4	12.4	12.5	12.5
95°	11.8	12.4	12.7	12.8	12.9	13.0	13.1
97.5°	12.1	12.2	12.3	12.4	12.5	12.6	12.7
100°	14.8	13.1	12.3	12.4	12.5	12.6	12.7
102.5°	40.7	22.2	13.0	13.0	13.0	13.0	13.1
105°	144.1	145.0	143.7	140.0	136.4	132.8	129.2
107.5°	177.6	178.1	178.5	178.9	179.2	179.6	180.0
110°	200.5	200.7	200.9	201.2	201.5	201.8	202.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	222.6	222.5	222.7	223.1	223.5	223.9	224.2
115°	256.2	256.4	256.5	256.5	256.5	256.5	256.5
117.5°	289.6	289.5	289.5	289.4	289.4	289.4	289.3
120°	310.6	310.8	310.8	310.6	310.4	310.2	310.0
122.5°	331.0	331.1	331.1	330.9	330.7	330.5	330.3
125°	359.8	360.1	360.3	360.4	360.5	360.6	360.7
127.5°	387.9	387.9	387.8	387.7	387.6	387.6	387.5
130°	405.5	405.6	405.6	405.6	405.6	405.6	405.6
132.5°	422.5	422.6	422.6	422.5	422.5	422.4	422.3
135°	446.1	446.3	446.5	446.7	446.9	447.1	447.3
137.5°	468.6	468.9	468.9	468.9	468.8	468.8	468.7
140°	482.7	483.0	483.2	483.3	483.4	483.5	483.6
142.5°	495.5	495.7	495.8	495.8	495.9	495.9	495.9
145°	513.8	513.9	514.0	514.2	514.4	514.6	514.8
147.5°	529.9	530.0	530.1	530.2	530.3	530.4	530.5
150°	540.2	540.2	540.3	540.4	540.5	540.6	540.7
152.5°	549.4	549.6	549.6	549.6	549.5	549.4	549.4
155°	561.8	562.2	562.3	562.0	561.7	561.4	561.1
157.5°	572.4	572.9	572.9	572.4	571.9	571.4	570.9
160°	579.2	579.8	579.8	579.2	578.6	578.0	577.4
162.5°	584.6	585.2	585.2	584.5	583.8	583.1	582.5
165°	592.5	593.3	593.2	592.3	591.4	590.5	589.6
167.5°	598.2	599.1	599.0	598.0	597.0	596.0	595.0
170°	601.5	602.4	602.3	601.2	600.2	599.2	598.2
172.5°	603.7	604.5	604.4	603.3	602.2	601.1	600.0
175°	606.4	607.3	607.1	605.9	604.7	603.5	602.3
177.5°	607.1	607.8	607.6	606.7	605.7	604.7	603.8
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9

(END OF REPORT)