

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: io LED

Report Number: P273416

Luminaire Tested: **0.05-06W-827-30-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 0.05-06W-827-30-STD-UNV-AN-3F0  
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 30 DEGREE OPTIC.  
HIGH OUTPUT  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1265.6 lumens  
Efficiency: N/A  
Efficacy: 54.6 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 1.67 / 0.84  
Luminous Opening: Rectangular (W 2.92' x L: 0.21' x H: 0')  
CIE Type: Direct

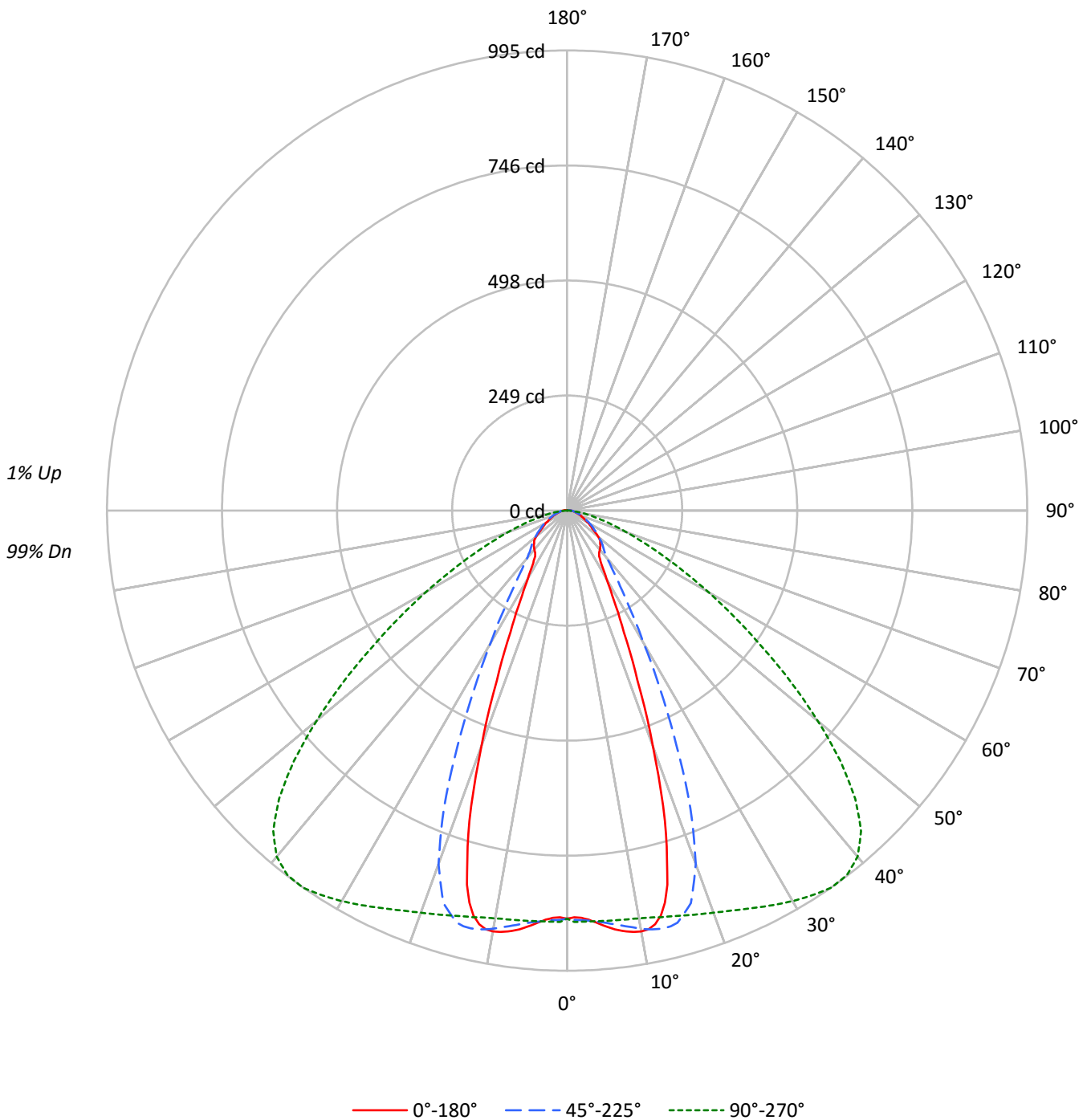
Input Watts (W): 23.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	82	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	55	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	50	45	41	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	47	42	39	37

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

	0°	45°	90°
0°	15631	15631	15631
5°	16018	15899	15840
10°	16624	16511	16110
15°	15355	16922	16647
20°	10204	15332	17439
25°	5662	10920	18539
30°	3467	6750	19943
35°	2606	4303	21526
40°	2551	3106	22588
45°	2538	2748	22076
50°	2420	2478	19498
55°	2023	2217	15908
60°	1832	2044	12457
65°	1639	1828	9423
70°	1559	1699	7002
75°	1561	1684	5222
80°	1683	1836	3744
85°	2500	2683	2317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	6.8
10°-20°	245.9	19.4
20°-30°	278.0	22.0
30°-40°	228.6	18.1
40°-50°	177.8	14.0
50°-60°	122.5	9.7
60°-70°	71.1	5.6
70°-80°	35.2	2.8
80°-90°	13.9	1.1
90°-100°	5.0	0.4
100°-110°	1.8	0.1
110°-120°	0.1	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	609.7	48.2
0°-40°	838.3	66.2
0°-60°	1138.5	90.0
0°-90°	1258.7	99.5
90°-120°	6.9	0.5
90°-150°	6.9	0.5
90°-180°	7.0	0.6
0°-180°	1265.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	901	898	894	884	891	87
15°	837	869	923	917	908	220
25°	290	343	559	895	948	141
35°	120	129	199	550	995	80
45°	101	99	110	247	881	78
55°	66	67	72	135	515	60
65°	39	40	44	75	225	39
75°	23	23	25	35	76	24
85°	12	13	13	11	11	11
90°	9	9	9	6	1	5
95°	7	7	6	2	0	5
105°	3	3	2	0	0	4
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P273416

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4
1°	879.7	879.4	877.6	878.8	882.1	885.1	886.6	886.0	885.7	885.1	884.8
2°	881.2	880.9	879.4	880.6	883.9	886.9	888.1	887.5	886.6	886.3	885.4
3°	885.7	885.4	883.6	884.5	887.5	889.6	890.2	889.6	888.7	888.1	886.9
4°	892.9	892.3	889.9	889.9	892.0	893.2	893.5	892.6	892.0	890.8	889.3
5°	900.8	899.5	896.5	896.2	897.4	898.3	897.7	896.8	895.6	894.1	892.6
6°	908.0	907.1	903.5	902.9	903.8	903.8	902.6	901.1	900.2	898.0	895.9
7°	914.3	913.1	909.8	909.2	910.1	909.8	908.6	906.8	905.3	902.6	900.2
8°	919.1	917.9	914.9	914.3	915.8	915.5	914.6	912.8	911.0	907.7	904.4
9°	922.4	920.9	918.2	918.2	920.3	920.6	920.0	918.5	916.7	912.5	909.5
10°	924.2	922.1	920.3	920.3	923.0	924.5	924.2	923.0	921.5	917.9	914.6
11°	922.4	919.7	919.1	920.0	923.3	925.7	926.6	926.6	925.7	922.4	919.4
12°	914.3	911.9	912.5	913.1	918.8	923.0	925.7	927.5	928.1	925.4	923.9
13°	899.2	896.5	897.4	900.8	908.9	915.2	920.9	925.1	928.4	927.2	927.5
14°	873.7	870.4	875.8	878.2	890.2	900.2	909.5	917.6	924.5	926.3	929.3
15°	837.3	834.3	842.1	845.5	862.0	876.4	890.2	903.8	916.1	922.7	928.7
17.5°	703.6	700.3	711.7	726.4	747.8	778.4	803.4	834.6	865.0	890.2	911.6
20°	541.3	543.4	551.2	565.6	594.5	628.2	666.3	714.1	762.8	813.3	858.7
22.5°	397.6	400.0	406.6	420.2	446.0	481.2	517.2	569.5	626.9	696.1	765.5
25°	289.7	293.9	296.9	309.3	330.0	355.3	388.0	431.0	486.6	558.7	641.1
27.5°	217.9	220.3	223.3	232.0	245.9	264.5	291.2	324.6	371.8	434.6	510.9
30°	169.5	170.4	173.4	179.7	187.8	202.3	221.2	246.2	280.1	330.0	393.4
32.5°	137.7	138.3	140.1	143.1	150.0	159.3	173.1	192.1	216.4	254.9	304.5
35°	120.5	120.8	121.7	122.9	126.2	131.3	140.1	153.9	171.6	199.0	237.7
37.5°	113.9	113.9	114.2	114.5	115.4	117.2	121.4	128.9	140.7	161.1	189.9
40°	110.3	110.3	110.3	109.7	110.0	110.6	112.4	116.0	121.4	134.3	154.5
42.5°	106.1	105.8	105.5	104.9	104.6	105.2	107.3	109.1	112.1	118.7	131.0
45°	101.3	101.3	101.0	99.8	99.5	99.2	99.8	101.3	104.9	109.7	116.6
47.5°	96.8	96.5	95.6	93.8	93.2	93.2	93.8	94.1	95.6	100.4	106.7
50°	87.8	87.8	87.8	86.6	86.6	86.3	86.3	87.2	88.1	89.9	95.3
52.5°	75.7	75.7	76.0	75.7	77.5	77.8	78.1	78.4	79.3	81.4	84.8
55°	65.5	65.5	66.1	65.8	66.4	67.6	69.4	71.2	71.2	71.8	75.4
57.5°	58.6	58.6	58.9	58.3	58.6	58.9	59.8	61.9	63.7	64.6	66.7
60°	51.7	52.0	52.0	51.7	52.3	52.6	52.9	54.1	55.0	57.7	59.5
62.5°	44.5	44.8	44.8	44.8	45.4	46.0	46.3	47.2	48.1	49.6	52.6
65°	39.1	39.1	39.1	39.1	39.4	39.7	40.3	41.5	41.8	43.6	45.4
67.5°	34.3	34.3	34.6	34.3	34.6	34.9	34.9	35.8	36.7	38.2	39.4
70°	30.1	30.1	30.1	30.4	30.4	30.7	30.7	31.0	31.6	32.8	34.3
72.5°	26.1	26.4	26.4	26.7	26.7	26.7	26.7	27.4	27.4	28.3	29.5
75°	22.8	23.1	23.1	23.1	23.1	23.4	23.4	23.7	24.0	24.6	25.5
77.5°	19.8	19.8	19.8	19.8	20.1	20.1	20.4	20.4	20.7	21.3	21.9
80°	16.5	17.1	17.1	17.1	17.1	17.4	17.4	17.7	17.7	18.0	18.3
82.5°	14.4	14.4	14.4	14.7	14.7	14.7	14.7	15.3	15.3	15.6	15.6
85°	12.3	12.3	12.3	12.6	12.6	12.6	12.6	12.9	12.9	13.2	12.9
87.5°	10.5	10.5	10.5	10.5	10.5	10.8	10.8	10.8	10.8	10.8	10.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
90°	8.7	9.0	9.0	9.0	9.0	9.0	9.3	9.0	9.0	9.0	8.7
92.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.2	6.9
95°	6.6	6.6	6.6	6.6	6.6	6.6	6.3	6.3	6.0	5.7	5.1
97.5°	5.7	5.4	5.4	5.4	5.4	5.4	5.1	5.1	4.8	4.5	3.9
100°	4.8	4.8	4.8	4.8	4.8	4.5	4.2	4.2	3.9	3.3	2.7
102.5°	4.2	4.2	4.2	4.2	3.9	3.9	3.6	3.3	3.0	2.7	2.1
105°	3.3	3.3	3.3	3.3	3.3	3.0	2.7	2.7	2.1	1.8	1.2
107.5°	2.7	2.7	2.7	2.7	2.7	2.4	2.1	2.1	1.5	0.9	0.6
110°	2.1	2.1	2.1	2.1	2.1	2.1	1.5	1.2	0.9	0.6	0.6
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4
1°	879.7	878.8	879.1	880.0	881.5	886.9	888.1	889.6
2°	880.6	879.7	880.0	880.6	882.1	887.5	888.4	889.6
3°	882.1	880.6	881.2	881.5	882.1	887.5	888.7	889.6
4°	884.5	882.4	882.7	882.4	883.0	887.8	889.3	890.2
5°	887.2	884.5	884.8	884.2	883.9	888.7	889.9	890.8
6°	890.2	887.2	887.2	886.0	885.4	889.6	890.5	891.4
7°	894.1	889.9	889.6	888.1	887.2	890.8	891.1	892.0
8°	898.3	893.2	892.9	891.1	889.0	892.0	892.6	893.2
9°	902.6	896.8	895.9	893.5	891.1	893.5	893.8	893.8
10°	907.4	900.8	899.5	896.8	894.1	895.3	895.3	895.6
11°	912.2	905.0	903.5	899.9	896.8	897.7	897.1	896.8
12°	916.1	908.9	907.7	903.5	899.9	900.2	899.2	899.2
13°	920.3	913.4	911.3	907.4	903.2	903.2	902.0	902.3
14°	922.7	917.0	915.2	911.0	906.8	906.5	904.7	904.7
15°	924.2	919.7	918.5	915.2	910.7	910.1	907.4	907.7
17.5°	920.0	923.9	925.4	925.4	920.9	919.4	915.5	916.1
20°	892.0	910.1	925.7	931.7	929.9	929.9	925.4	925.1
22.5°	828.3	874.3	911.6	932.3	938.0	940.4	937.1	935.9
25°	725.5	801.6	871.6	918.2	940.4	950.6	948.5	948.5
27.5°	597.8	703.3	801.3	883.9	931.7	956.4	960.3	961.8
30°	479.1	584.3	703.9	817.8	904.4	954.9	970.8	975.0
32.5°	376.0	470.7	588.5	730.9	853.0	941.3	977.7	986.4
35°	295.1	371.2	480.0	620.3	778.4	906.5	975.3	995.4
37.5°	232.9	295.4	387.1	518.5	683.5	847.6	958.2	993.6
40°	187.8	236.5	309.3	426.2	584.6	771.5	921.2	976.8
42.5°	154.2	193.0	252.2	349.5	495.3	687.1	865.6	940.7
45°	131.0	159.6	206.8	287.9	418.1	602.9	795.0	881.2
47.5°	116.9	136.5	174.0	241.3	355.0	526.3	713.5	801.3
50°	104.9	120.8	149.7	205.3	303.0	453.8	626.0	707.5
52.5°	92.3	106.7	131.0	176.7	260.3	390.4	540.7	611.3
55°	81.7	93.2	114.8	154.8	224.5	333.3	456.5	515.1
57.5°	72.1	81.7	99.8	134.9	195.7	282.2	380.2	429.8
60°	63.1	71.5	87.2	116.3	166.5	234.4	310.2	351.6
62.5°	56.5	62.5	76.0	100.4	139.5	193.3	253.7	282.5
65°	49.9	55.3	65.5	85.4	115.7	156.0	202.9	224.8
67.5°	42.4	48.1	55.9	72.1	94.4	124.7	160.2	174.9
70°	36.7	40.3	47.5	59.5	76.3	98.9	124.4	135.2
72.5°	31.3	33.7	39.4	48.1	60.1	76.9	95.3	102.8
75°	26.7	28.6	31.6	37.6	46.6	58.3	70.6	76.3
77.5°	22.8	23.4	25.2	28.9	34.3	42.7	51.1	54.7
80°	18.9	19.5	19.5	21.3	24.3	29.5	34.3	36.7
82.5°	15.6	15.6	15.6	15.6	16.5	18.9	21.0	22.2
85°	12.6	12.3	11.7	11.1	10.8	10.5	11.1	11.4
87.5°	10.5	9.9	8.7	7.5	6.3	5.1	4.2	4.2





TEST NUMBER: P273416

CATALOG NUMBER: 0.05-06W-827-30-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
90°	8.1	7.5	6.3	5.1	3.6	2.1	1.2	0.6
92.5°	6.3	5.4	4.2	3.0	1.8	0.6	0.0	0.0
95°	4.5	3.9	2.7	1.8	0.6	0.0	0.0	0.0
97.5°	3.3	2.4	1.5	0.6	0.0	0.0	0.0	0.0
100°	2.1	1.5	0.6	0.0	0.0	0.0	0.0	0.0
102.5°	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)