

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: P273373

Luminaire Tested: **0.03-5W-827-90-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 0.03-5W-827-90-ID-STD-UNV-AN-3F0  
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 90 DEGREE SYMMETRIC OPTIC.  
VERY HIGH OUTPUT  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 916.1 lumens  
Efficiency: N/A  
Efficacy: 50.1 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.2 / 1.52  
Luminous Opening: Rectangular (W 2.92' x L: 0.06' x H: 0')  
CIE Type: Direct

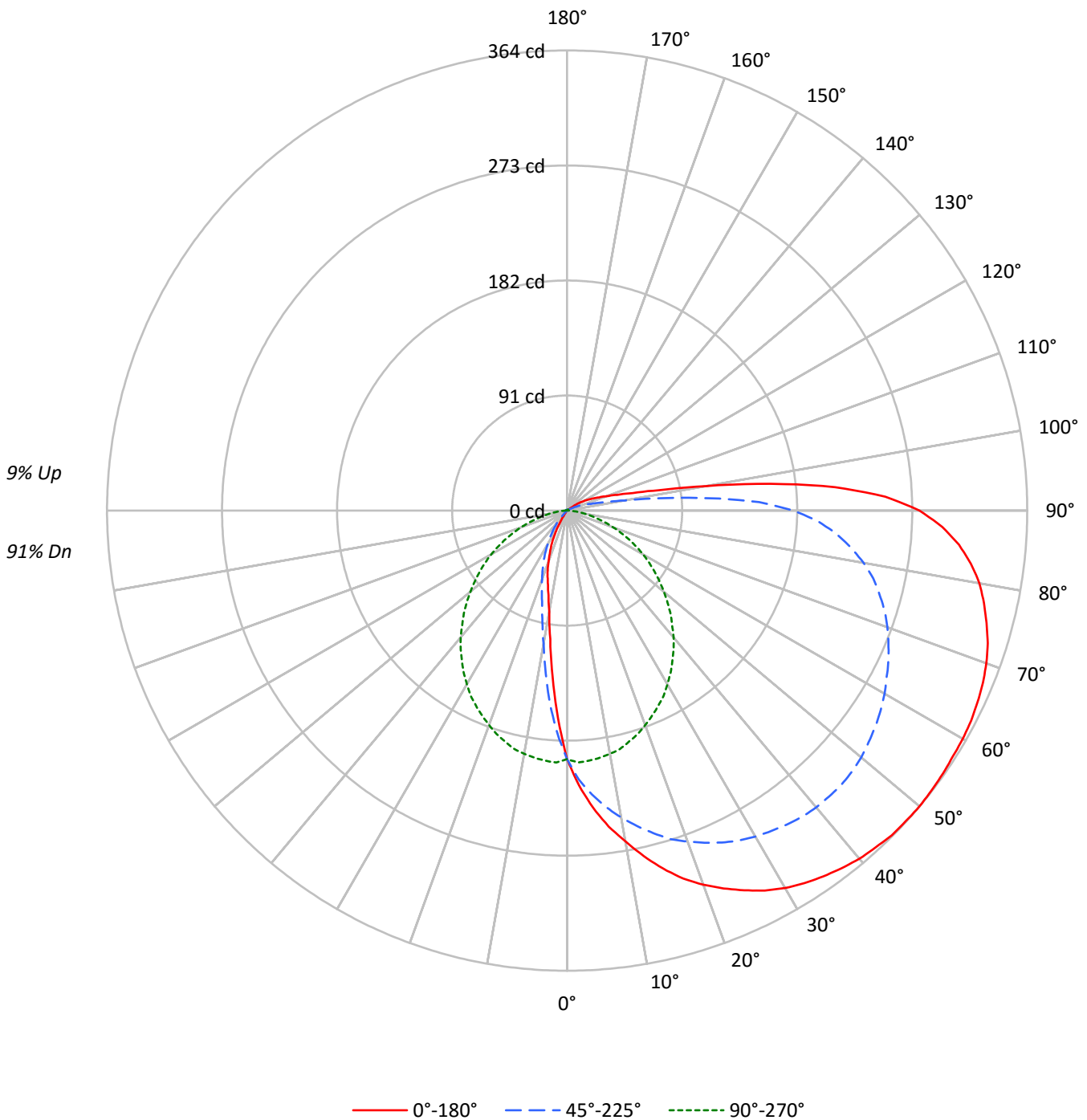
Input Watts (W): 18.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	102	95	88	83	98	91	86	81	85	81	76	80	76	72	75	72	69	66
2	90	80	71	64	87	77	69	62	72	65	59	67	61	56	63	58	54	51
3	81	68	59	51	78	66	57	50	62	54	47	58	51	45	54	48	44	41
4	74	60	49	42	71	58	48	41	54	46	39	50	43	38	47	41	36	33
5	67	53	43	35	65	51	42	34	48	40	33	45	38	32	42	36	31	28
6	62	47	37	30	59	46	36	30	43	35	29	40	33	28	38	31	27	24
7	57	42	33	26	55	41	32	26	39	31	25	36	29	24	34	28	23	21
8	53	39	29	23	51	37	29	23	35	28	22	33	26	21	31	25	21	18
9	50	35	26	20	48	34	26	20	32	25	20	31	24	19	29	23	18	16
10	46	32	24	18	45	32	24	18	30	23	18	28	22	17	27	21	17	15

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

	0°	90°	180°
0°	11603	11603	11603
5°	13989	11772	7836
10°	15931	11716	4899
15°	17924	11566	3601
20°	19787	11348	2715
25°	21591	11108	1863
30°	23509	10814	955
35°	25460	10459	202
40°	27718	10105	15
45°	30329	9653	0
50°	33429	9177	0
55°	37349	8699	0
60°	42668	8196	0
65°	50061	7545	28
70°	60926	6681	0
75°	78367	5749	0
80°	112622	4693	68
85°	210837	3523	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.8	1.9
10°-20°	49.7	5.4
20°-30°	77.7	8.5
30°-40°	99.8	10.9
40°-50°	116.2	12.7
50°-60°	125.3	13.7
60°-70°	126.5	13.8
70°-80°	119.4	13.0
80°-90°	102.7	11.2
90°-100°	59.6	6.5
100°-110°	14.7	1.6
110°-120°	4.8	0.5
120°-130°	1.2	0.1
130°-140°	0.5	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	145.3	15.9
0°-40°	245.1	26.7
0°-60°	486.6	53.1
0°-90°	835.2	91.2
90°-120°	79.1	8.6
90°-150°	80.9	8.8
90°-180°	81.0	8.8
0°-180°	916.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	196	196	196	196	196	
5°	236	226	199	154	132	23
15°	293	264	189	76	59	84
25°	331	290	170	44	29	154
35°	353	303	145	20	3	222
45°	363	307	116	3	0	281
55°	363	298	84	0	0	325
65°	358	280	54	1	0	355
75°	344	256	25	1	0	363
85°	311	214	5	1	0	258
90°	279	179	1	1	0	152
95°	213	113	1	1	0	152
105°	54	22	1	1	0	64
115°	22	6	1	1	0	23
125°	6	1	1	1	0	6
135°	0	1	1	1	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5
2.5°	217.7	216.4	216.5	216.5	215.2	215.1	214.5	213.2	213.0	213.0	210.6
5°	236.0	234.9	234.7	234.1	232.1	231.1	230.0	228.1	226.8	225.5	222.3
7.5°	252.1	250.8	250.2	249.3	247.0	245.5	243.5	241.0	238.8	236.6	232.3
10°	265.7	264.6	263.7	262.5	260.1	258.1	255.6	252.6	250.2	246.5	241.4
12.5°	279.9	278.6	277.7	275.8	273.8	271.0	267.8	263.7	260.5	255.6	249.6
15°	293.2	291.9	290.6	288.4	285.9	282.4	278.4	274.0	270.2	264.2	256.9
17.5°	305.2	303.9	302.6	300.3	297.3	293.2	288.7	283.3	278.4	272.5	264.2
20°	314.9	313.4	312.1	310.2	306.5	302.2	297.3	291.3	285.9	278.6	270.0
22.5°	323.5	321.8	320.5	318.5	314.5	310.2	304.6	298.5	292.5	284.4	274.9
25°	331.4	329.9	328.4	326.3	322.2	317.2	311.7	305.0	298.3	289.7	279.4
27.5°	338.8	337.3	336.0	333.2	329.3	324.1	318.3	311.0	303.3	294.3	283.1
30°	344.8	343.5	342.0	339.4	335.1	329.9	323.5	315.7	307.4	297.7	286.1
32.5°	349.5	348.4	347.1	344.1	340.0	334.4	327.4	319.6	310.8	300.5	288.5
35°	353.2	353.1	351.4	348.0	344.3	338.3	331.2	323.3	313.8	303.1	290.2
37.5°	356.6	356.4	354.9	351.6	347.4	341.8	334.2	326.3	316.2	305.4	291.7
40°	359.6	359.2	357.7	354.2	350.4	344.5	336.8	328.6	318.1	306.5	292.5
42.5°	361.3	361.1	359.6	355.9	351.9	346.0	338.3	329.3	319.2	306.7	292.5
45°	363.2	362.8	360.9	357.2	353.2	347.1	339.6	330.1	319.6	306.7	292.1
47.5°	363.5	363.3	361.3	357.7	353.4	347.3	339.8	329.7	318.6	305.7	290.4
50°	363.9	363.5	361.3	357.9	353.1	347.3	338.8	329.1	317.7	303.7	287.8
52.5°	363.5	362.8	360.7	357.0	352.3	346.1	337.5	327.8	315.3	300.7	284.4
55°	362.8	362.0	359.8	356.0	351.6	344.6	336.2	325.8	312.9	297.7	280.3
57.5°	361.8	360.9	358.5	354.9	349.9	343.1	334.5	323.1	309.9	294.0	275.8
60°	361.3	360.3	357.5	353.8	348.6	341.3	332.3	320.5	306.7	289.9	271.0
62.5°	360.2	359.0	356.4	352.5	346.7	339.6	329.7	317.5	302.9	285.0	265.0
65°	358.3	357.2	354.6	350.8	344.6	337.3	327.1	314.9	299.2	280.5	258.6
67.5°	356.0	354.9	351.7	347.8	341.3	334.0	323.5	310.6	295.3	275.1	251.7
70°	352.9	351.9	348.8	344.6	338.3	330.1	320.0	306.7	290.2	269.7	244.8
72.5°	348.9	348.0	344.8	340.3	334.4	325.6	315.5	302.2	284.6	263.3	237.3
75°	343.5	343.0	339.8	335.3	328.9	320.5	309.7	296.2	278.6	255.8	228.5
77.5°	337.7	337.0	334.0	329.1	322.4	314.2	303.1	288.9	271.2	248.1	219.9
80°	331.2	330.2	327.3	322.2	315.1	306.3	295.3	280.3	261.8	238.1	210.4
82.5°	322.2	321.5	318.8	313.6	306.5	297.3	286.1	270.8	251.7	226.6	199.7
85°	311.2	310.6	308.0	302.9	295.6	286.5	274.7	259.9	239.0	214.1	188.9
87.5°	297.1	297.0	294.0	288.7	281.6	272.3	260.1	244.2	223.3	199.0	173.9
90°	278.8	278.3	274.3	269.5	262.2	252.1	240.3	224.4	202.3	179.1	155.8
92.5°	251.9	252.1	247.6	242.7	234.9	224.0	212.6	197.3	173.3	152.0	129.4
95°	212.8	213.6	209.8	203.1	195.0	184.9	171.7	156.5	133.3	112.6	93.9
97.5°	162.3	161.9	158.4	149.8	144.0	131.6	121.2	106.6	89.6	73.9	60.0
100°	111.1	111.5	108.5	103.0	96.3	86.6	78.7	67.7	56.5	46.0	36.8
102.5°	73.9	74.6	71.4	68.6	63.8	58.2	51.6	45.4	37.2	30.5	24.5
105°	53.5	53.7	52.0	48.6	45.3	41.9	37.0	32.2	26.7	21.7	17.2
107.5°	41.5	41.5	40.2	37.6	35.3	32.0	28.4	24.5	20.0	16.1	12.2
110°	33.3	33.3	32.2	30.5	28.1	25.4	22.4	19.1	15.3	12.2	9.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	27.3	27.1	26.4	24.5	22.6	20.6	17.8	15.0	11.8	9.0	6.5
115°	22.4	22.3	21.5	20.0	18.3	16.5	14.0	11.6	9.0	6.2	2.8
117.5°	18.3	18.3	17.4	16.5	14.8	13.1	10.8	8.8	5.8	2.1	0.9
120°	14.8	14.8	14.2	12.9	11.6	9.9	7.7	4.9	1.3	0.9	0.7
122.5°	11.4	11.4	10.8	9.5	7.7	5.4	2.8	0.9	0.7	0.9	0.7
125°	6.4	6.2	5.2	3.9	2.1	0.9	0.7	0.7	0.6	0.7	0.7
127.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7
130°	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.7
132.5°	0.4	0.4	0.6	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
135°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.7
137.5°	0.6	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.9	0.7	0.7
140°	0.6	0.4	0.6	0.4	0.4	0.6	0.6	0.6	0.6	0.7	0.7
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°	95°	100°	105°
0°	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5
2.5°	210.0	208.3	207.6	205.9	204.4	202.9	201.4	199.5	196.9	193.7	191.5
5°	220.5	217.7	215.2	212.2	209.3	206.3	202.5	198.6	193.5	188.5	183.6
7.5°	229.3	225.7	222.2	217.5	213.4	208.7	203.5	197.3	190.4	182.7	175.0
10°	237.3	232.6	227.6	221.8	216.4	210.4	203.5	195.4	186.4	176.2	165.7
12.5°	244.6	238.8	232.4	225.5	218.4	211.3	202.7	193.2	181.6	168.7	155.4
15°	250.4	243.5	236.2	227.8	219.2	210.7	200.8	189.2	175.8	160.3	143.6
17.5°	256.4	248.1	239.5	229.8	219.9	210.2	198.8	185.5	169.8	151.5	132.4
20°	260.7	251.7	242.0	231.1	219.7	208.9	196.2	180.6	162.9	142.5	120.8
22.5°	264.6	254.5	243.5	231.9	219.2	206.6	192.8	175.6	156.0	133.0	109.8
25°	268.3	256.6	244.8	231.7	217.5	204.0	189.1	170.5	148.5	123.4	99.1
27.5°	271.7	258.2	245.2	230.9	215.8	201.2	184.9	165.1	141.0	114.3	89.0
30°	273.8	259.4	245.2	229.4	213.2	197.3	180.1	158.6	133.0	104.5	79.7
32.5°	274.9	260.1	244.6	227.8	210.0	193.0	174.5	152.2	124.9	95.4	70.9
35°	276.0	260.3	243.8	225.5	206.8	188.3	168.3	145.1	116.7	86.6	63.4
37.5°	276.4	259.6	242.5	223.5	203.1	183.4	162.5	138.4	108.6	78.2	56.7
40°	276.6	258.6	240.3	220.5	199.0	178.2	156.1	131.1	100.6	70.5	50.5
42.5°	275.8	256.9	238.1	216.7	193.7	171.9	148.9	122.9	91.8	62.8	44.5
45°	274.5	255.1	234.7	212.4	188.5	164.9	141.4	115.6	84.7	56.1	39.6
47.5°	272.3	251.9	230.4	207.2	181.8	157.5	133.5	107.7	76.9	50.1	34.6
50°	269.7	248.3	225.7	200.7	174.3	150.0	126.2	99.9	69.8	44.7	30.1
52.5°	265.5	243.5	219.5	193.7	167.0	142.3	118.2	92.2	62.8	39.1	25.8
55°	261.1	237.9	213.0	186.1	159.5	134.1	109.8	84.5	56.3	33.8	21.7
57.5°	255.3	231.1	205.1	178.4	151.5	126.0	101.9	76.9	49.6	29.4	17.6
60°	248.9	223.8	197.1	170.7	143.2	117.6	93.5	69.4	43.6	24.9	14.0
62.5°	241.4	215.4	189.1	162.3	134.6	108.6	84.9	61.3	37.6	20.8	10.8
65°	233.8	206.8	180.6	153.7	125.5	99.7	76.1	54.0	32.0	16.5	7.7
67.5°	224.8	197.8	171.1	143.8	115.9	90.1	66.9	46.2	26.4	12.3	4.7
70°	216.7	188.9	161.8	134.1	106.0	80.2	58.2	38.7	20.8	8.6	2.2
72.5°	208.7	180.3	152.2	123.8	95.9	70.3	49.7	31.8	15.9	5.6	1.3
75°	200.5	171.7	142.9	113.5	85.1	61.1	41.3	25.2	11.2	3.0	0.9
77.5°	191.9	163.1	133.3	103.4	75.0	51.8	33.5	19.1	7.5	1.5	0.9
80°	182.9	153.9	123.8	93.7	65.8	43.4	26.0	13.8	4.5	1.1	0.7
82.5°	173.3	144.2	113.9	84.2	56.8	35.3	19.6	9.2	1.9	0.7	0.7
85°	162.3	133.9	104.2	75.2	48.8	28.2	14.4	5.2	1.1	0.7	0.7
87.5°	149.0	121.4	92.8	65.3	40.8	22.6	9.7	2.8	1.1	1.1	0.9
90°	131.1	105.1	78.2	53.1	31.6	16.1	6.0	0.9	0.9	0.9	0.7
92.5°	107.0	82.8	59.3	38.7	21.5	9.4	2.6	0.9	1.1	0.9	0.7
95°	75.4	55.7	38.3	23.7	11.8	3.7	1.1	0.9	1.1	0.7	0.7
97.5°	46.2	33.5	22.3	12.5	5.4	1.1	0.7	0.9	0.9	0.7	0.7
100°	28.2	20.0	12.7	6.5	2.6	0.9	0.7	0.9	1.1	0.7	0.9
102.5°	18.3	12.5	7.5	3.6	0.7	0.7	0.7	0.9	0.9	0.7	0.9
105°	12.3	8.0	4.5	1.1	0.7	0.6	0.7	0.7	0.7	0.7	0.9
107.5°	8.6	5.2	1.5	0.9	0.6	0.6	0.7	0.7	0.7	0.7	0.7
110°	5.8	2.2	0.9	0.9	0.7	0.7	0.6	0.7	0.7	0.7	0.7





TEST NUMBER: P273373

CATALOG NUMBER: 0.03-5W-827-90-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	2.8	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.9	0.7	0.7
115°	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7
117.5°	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.6
120°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
122.5°	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
125°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6
127.5°	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
130°	0.7	0.9	0.9	0.7	0.9	0.7	0.9	0.9	0.9	0.9	0.9
132.5°	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.7	0.7	0.7
135°	0.7	0.7	0.7	0.7	0.9	0.9	0.7	0.7	0.9	0.9	0.9
137.5°	0.7	0.9	0.9	0.9	0.9	1.1	1.1	0.9	1.1	1.1	1.1
140°	0.7	0.9	0.7	0.7	0.9	0.7	0.9	0.9	0.9	0.9	0.9
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



TEST NUMBER: P273373

CATALOG NUMBER: 0.03-5W-827-90-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5
2.5°	189.1	186.4	184.2	181.4	178.4	176.5	174.5	171.9	170.9	168.7	167.2
5°	179.0	173.7	168.9	163.6	158.0	153.9	150.2	145.9	142.7	139.3	138.2
7.5°	167.4	159.7	151.8	143.6	135.9	129.8	124.5	118.9	114.6	112.0	108.8
10°	154.8	144.4	133.1	123.6	114.6	107.3	101.9	96.3	92.0	88.3	86.6
12.5°	141.6	128.8	116.1	105.5	97.1	90.3	84.5	80.4	77.2	74.6	72.4
15°	127.5	112.6	100.0	89.6	81.7	76.3	71.6	68.4	66.2	63.8	62.1
17.5°	114.4	99.5	86.2	77.8	71.6	66.8	62.8	59.7	57.4	55.4	53.9
20°	101.9	87.0	75.9	68.3	62.8	58.2	54.6	51.6	49.4	47.5	45.8
22.5°	90.3	76.5	66.8	59.8	54.8	50.7	46.9	43.8	41.9	39.8	38.0
25°	80.2	67.9	58.5	52.4	48.1	43.8	40.2	36.8	34.6	32.4	30.7
27.5°	71.2	59.8	51.8	46.0	41.5	37.2	33.5	30.7	27.9	25.6	23.9
30°	63.4	53.1	45.8	39.8	35.3	30.7	27.3	23.9	21.7	19.3	17.4
32.5°	56.3	46.8	40.0	34.2	29.5	25.1	21.5	18.5	15.7	13.3	11.0
35°	50.1	41.1	34.2	28.8	24.3	20.0	16.6	13.3	10.1	7.7	5.8
37.5°	44.1	35.9	29.5	23.9	19.4	15.3	11.6	8.0	5.4	3.6	2.6
40°	38.9	31.4	24.7	19.8	15.1	10.8	7.3	4.3	2.2	1.1	0.6
42.5°	34.0	26.4	20.4	15.3	10.8	6.5	3.7	1.5	0.6	0.4	0.2
45°	29.5	22.4	16.6	11.6	7.1	3.4	1.3	0.9	0.6	0.4	0.2
47.5°	25.1	18.5	12.9	7.7	3.7	1.3	0.7	0.6	0.4	0.4	0.2
50°	21.1	14.8	9.4	4.5	1.7	0.7	0.6	0.6	0.4	0.4	0.2
52.5°	17.2	11.2	5.4	1.9	0.7	0.6	0.4	0.4	0.2	0.4	0.2
55°	13.8	7.7	3.0	0.9	0.6	0.4	0.4	0.4	0.4	0.2	0.2
57.5°	10.8	4.7	1.3	0.7	0.6	0.6	0.4	0.4	0.4	0.2	0.2
60°	7.7	2.6	1.1	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
62.5°	4.7	1.3	0.7	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2
65°	2.6	1.1	0.7	0.7	0.7	0.6	0.6	0.6	0.4	0.4	0.4
67.5°	1.1	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2	0.2
70°	0.7	0.7	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.2	0.4
72.5°	0.9	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4
77.5°	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.2
80°	0.7	0.9	0.9	0.7	0.6	0.6	0.4	0.4	0.6	0.4	0.4
82.5°	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4
85°	0.9	0.9	0.9	0.7	0.7	0.6	0.6	0.6	0.4	0.4	0.4
87.5°	0.9	1.1	1.1	0.9	0.7	0.7	0.6	0.6	0.4	0.6	0.4
90°	0.7	0.7	0.7	0.7	0.6	0.6	0.4	0.6	0.4	0.4	0.2
92.5°	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.4	0.4	0.4	0.4
95°	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.4	0.4
97.5°	0.9	0.9	0.7	0.7	0.7	0.6	0.6	0.4	0.4	0.4	0.4
100°	0.7	0.9	0.9	0.9	0.7	0.7	0.7	0.6	0.6	0.6	0.6
102.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.4
105°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.4	0.4	0.4	0.4
107.5°	0.6	0.7	0.7	0.6	0.6	0.6	0.4	0.4	0.6	0.4	0.4
110°	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.4	0.4	0.4



TEST NUMBER: P273373

CATALOG NUMBER: 0.03-5W-827-90-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.4	0.4	0.4
115°	0.7	0.7	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
117.5°	0.7	0.7	0.6	0.6	0.4	0.6	0.6	0.4	0.4	0.4	0.2
120°	0.7	0.7	0.7	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
122.5°	0.7	0.7	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.4	0.2
125°	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2
127.5°	0.7	0.7	0.6	0.7	0.6	0.6	0.4	0.6	0.4	0.4	0.4
130°	0.7	0.7	0.7	0.9	0.7	0.6	0.6	0.6	0.4	0.6	0.4
132.5°	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4
135°	0.9	0.9	0.9	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.4
137.5°	0.9	0.9	0.9	0.9	0.7	0.9	0.7	0.7	0.7	0.6	0.6
140°	0.9	0.9	0.7	0.9	0.7	0.7	0.7	0.6	0.6	0.4	0.4
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



TEST NUMBER: P273373

CATALOG NUMBER: 0.03-5W-827-90-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	196.5	196.5	196.5	196.5
2.5°	166.2	167.0	166.1	164.6
5°	135.4	135.6	134.1	132.2
7.5°	106.0	105.7	104.2	102.5
10°	84.7	84.0	82.8	81.7
12.5°	70.5	69.8	69.6	68.4
15°	60.4	59.7	59.5	58.9
17.5°	52.7	52.0	51.6	51.4
20°	44.7	44.1	43.6	43.2
22.5°	37.0	36.3	35.7	35.2
25°	29.5	28.8	28.1	28.6
27.5°	22.8	21.9	20.8	21.1
30°	15.7	15.0	14.0	14.0
32.5°	9.4	8.2	7.5	7.3
35°	4.3	3.6	3.0	2.8
37.5°	1.5	0.9	0.6	0.7
40°	0.6	0.4	0.2	0.2
42.5°	0.2	0.2	0.0	0.0
45°	0.4	0.2	0.2	0.0
47.5°	0.2	0.2	0.0	0.0
50°	0.2	0.2	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.2	0.0	0.0	0.0
62.5°	0.2	0.0	0.0	0.0
65°	0.2	0.2	0.0	0.2
67.5°	0.2	0.2	0.0	0.0
70°	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.0	0.0
75°	0.2	0.2	0.0	0.0
77.5°	0.2	0.2	0.2	0.0
80°	0.4	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.0
85°	0.4	0.2	0.2	0.0
87.5°	0.6	0.4	0.4	0.4
90°	0.2	0.2	0.2	0.0
92.5°	0.4	0.2	0.2	0.2
95°	0.4	0.2	0.4	0.4
97.5°	0.4	0.2	0.2	0.2
100°	0.4	0.2	0.4	0.4
102.5°	0.4	0.4	0.2	0.4
105°	0.4	0.2	0.2	0.2
107.5°	0.2	0.2	0.2	0.2
110°	0.2	0.2	0.2	0.2



TEST NUMBER: P273373

CATALOG NUMBER: 0.03-5W-827-90-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	0.2	0.2	0.2	0.0
115°	0.2	0.2	0.0	0.2
117.5°	0.2	0.2	0.0	0.0
120°	0.2	0.2	0.2	0.0
122.5°	0.2	0.2	0.2	0.0
125°	0.2	0.2	0.0	0.2
127.5°	0.2	0.2	0.2	0.2
130°	0.2	0.4	0.2	0.2
132.5°	0.2	0.2	0.2	0.0
135°	0.2	0.2	0.2	0.2
137.5°	0.6	0.6	0.4	0.4
140°	0.4	0.4	0.4	0.2
142.5°	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0

(END OF REPORT)