

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: P273383

Luminaire Tested: **0.03-5W-835-90-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273383
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-835-90-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 90 DEGREE SYMMETRIC OPTIC.
VERY HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1018.9 lumens
Efficiency: N/A
Efficacy: 55.7 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

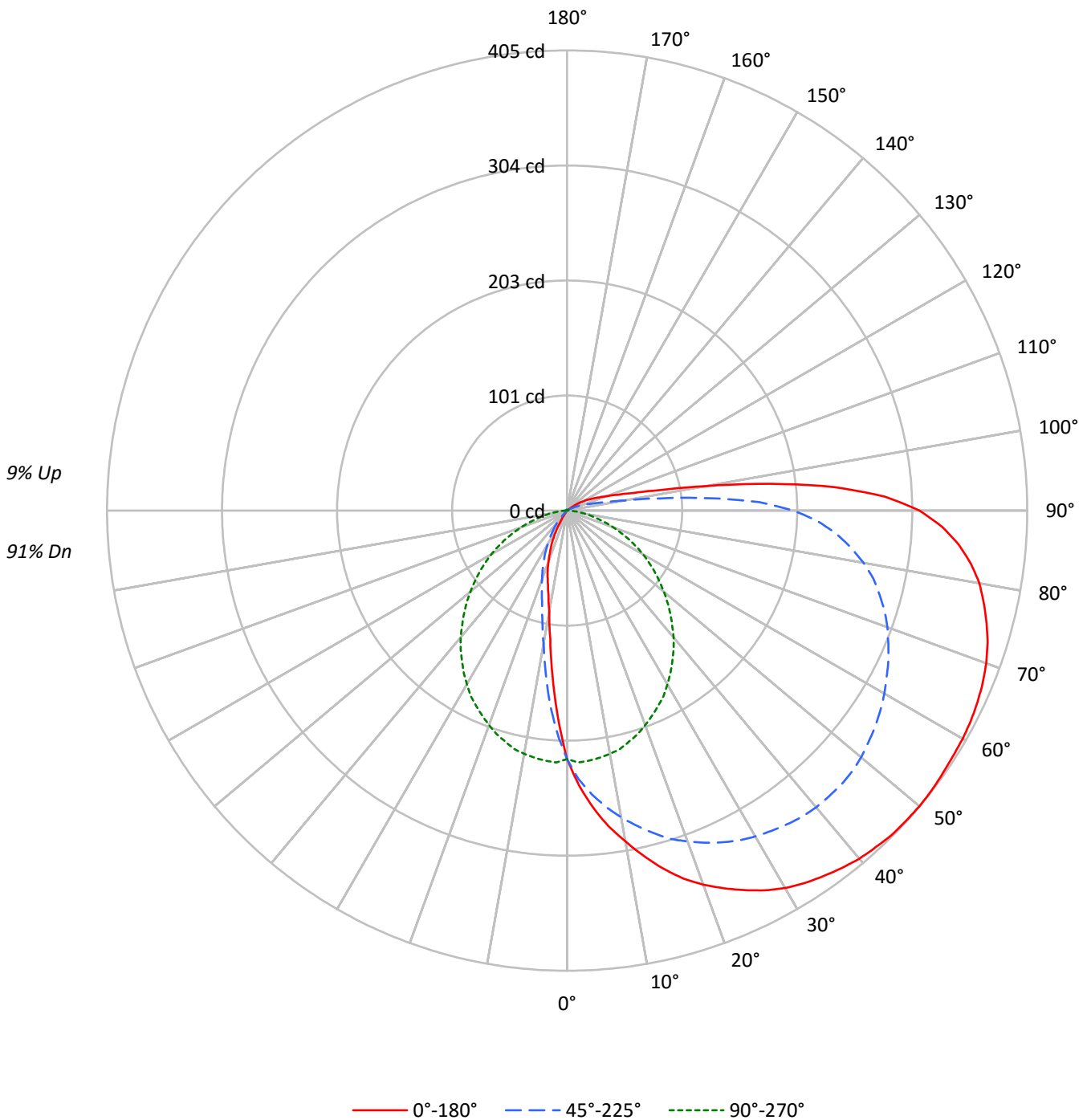
Input Watts (W): 18.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	12908	12908	12908
5°	15559	13093	8719
10°	17724	13035	5450
15°	19935	12868	4004
20°	22012	12624	3016
25°	24015	12359	2072
30°	26155	12027	1064
35°	28322	11634	223
40°	30833	11238	15
45°	33728	10731	0
50°	37186	10206	0
55°	41539	9677	0
60°	47463	9117	0
65°	55678	8397	28
70°	67763	7441	0
75°	87173	6411	0
80°	125272	5237	68
85°	234482	3929	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	1.9
10°-20°	55.3	5.4
20°-30°	86.4	8.5
30°-40°	111.0	10.9
40°-50°	129.3	12.7
50°-60°	139.4	13.7
60°-70°	140.7	13.8
70°-80°	132.8	13.0
80°-90°	114.2	11.2
90°-100°	66.3	6.5
100°-110°	16.4	1.6
110°-120°	5.3	0.5
120°-130°	1.4	0.1
130°-140°	0.6	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°	161.6	15.9
0°-40°	272.6	26.8
0°-60°	541.2	53.1
0°-90°	928.9	91.2
90°-120°	88.0	8.6
90°-150°	90.0	8.8
90°-180°	90.0	8.8
0°-180°	1018.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	219	219	219	219	219	
5°	262	251	221	171	147	26
15°	326	294	210	85	66	93
25°	369	322	190	49	32	171
35°	393	337	161	22	3	247
45°	404	341	128	4	0	312
55°	404	331	94	0	0	362
65°	398	312	60	1	0	395
75°	382	284	28	1	0	404
85°	346	238	6	1	0	287
90°	310	199	1	1	0	169
95°	237	125	1	1	0	169
105°	60	24	1	1	0	71
115°	25	7	1	1	0	26
125°	7	1	1	1	0	7
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°	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6
2.5°	242.1	240.7	240.9	240.9	239.4	239.2	238.6	237.1	236.9	236.9	234.2
5°	262.5	261.2	261.0	260.4	258.1	257.1	255.8	253.8	252.3	250.8	247.3
7.5°	280.4	278.9	278.3	277.3	274.8	273.1	270.8	268.1	265.6	263.1	258.3
10°	295.6	294.3	293.3	292.0	289.3	287.0	284.3	281.0	278.3	274.1	268.5
12.5°	311.4	309.9	308.9	306.8	304.5	301.4	297.9	293.3	289.7	284.3	277.7
15°	326.1	324.7	323.2	320.7	318.0	314.1	309.7	304.7	300.6	293.9	285.8
17.5°	339.5	338.0	336.5	334.0	330.7	326.1	321.2	315.1	309.7	303.1	293.9
20°	350.3	348.6	347.2	345.1	340.9	336.1	330.7	324.1	318.0	309.9	300.4
22.5°	359.8	358.0	356.5	354.2	349.9	345.1	338.8	332.0	325.3	316.4	305.8
25°	368.6	366.9	365.2	363.0	358.4	352.8	346.7	339.2	331.8	322.2	310.8
27.5°	376.9	375.2	373.8	370.7	366.3	360.5	354.0	345.9	337.4	327.4	314.9
30°	383.6	382.1	380.4	377.5	372.7	366.9	359.8	351.1	342.0	331.1	318.2
32.5°	388.8	387.5	386.0	382.7	378.1	371.9	364.2	355.5	345.7	334.3	320.9
35°	392.9	392.7	390.8	387.1	382.9	376.3	368.4	359.6	349.0	337.2	322.8
37.5°	396.7	396.4	394.8	391.0	386.5	380.2	371.7	363.0	351.7	339.7	324.5
40°	400.0	399.6	397.9	394.0	389.8	383.1	374.6	365.5	353.8	340.9	325.3
42.5°	401.9	401.6	400.0	395.8	391.5	384.8	376.3	366.3	355.1	341.1	325.3
45°	403.9	403.5	401.4	397.3	392.9	386.0	377.7	367.1	355.5	341.1	324.9
47.5°	404.4	404.1	401.9	397.9	393.1	386.3	377.9	366.7	354.4	340.1	323.0
50°	404.8	404.4	401.9	398.1	392.7	386.3	376.9	366.1	353.4	337.8	320.1
52.5°	404.4	403.5	401.2	397.1	391.9	385.0	375.4	364.6	350.7	334.5	316.4
55°	403.5	402.7	400.2	396.0	391.0	383.3	374.0	362.3	348.0	331.1	311.8
57.5°	402.5	401.4	398.7	394.8	389.2	381.7	372.1	359.4	344.7	327.0	306.8
60°	401.9	400.8	397.7	393.5	387.7	379.6	369.6	356.5	341.1	322.4	301.4
62.5°	400.6	399.4	396.4	392.1	385.6	377.7	366.7	353.2	337.0	317.0	294.7
65°	398.5	397.3	394.4	390.2	383.3	375.2	363.8	350.3	332.8	312.0	287.7
67.5°	396.0	394.8	391.2	386.9	379.6	371.5	359.8	345.5	328.4	306.0	280.0
70°	392.5	391.5	387.9	383.3	376.3	367.1	355.9	341.1	322.8	299.9	272.3
72.5°	388.1	387.1	383.6	378.6	371.9	362.1	350.9	336.1	316.6	292.9	264.0
75°	382.1	381.5	377.9	372.9	365.9	356.5	344.4	329.5	309.9	284.5	254.2
77.5°	375.6	374.8	371.5	366.1	358.6	349.4	337.2	321.4	301.6	276.0	244.6
80°	368.4	367.3	364.0	358.4	350.5	340.7	328.4	311.8	291.2	264.8	234.0
82.5°	358.4	357.6	354.6	348.8	340.9	330.7	318.2	301.2	280.0	252.1	222.1
85°	346.1	345.5	342.6	337.0	328.8	318.7	305.6	289.1	265.8	238.2	210.1
87.5°	330.5	330.3	327.0	321.2	313.2	302.8	289.3	271.6	248.4	221.3	193.4
90°	310.1	309.5	305.1	299.7	291.6	280.4	267.3	249.6	225.1	199.3	173.3
92.5°	280.2	280.4	275.4	270.0	261.2	249.2	236.5	219.4	192.8	169.1	143.9
95°	236.7	237.5	233.4	225.9	216.9	205.7	190.9	174.1	148.3	125.2	104.4
97.5°	180.5	180.1	176.2	166.6	160.2	146.4	134.8	118.6	99.6	82.2	66.8
100°	123.6	124.0	120.6	114.6	107.1	96.3	87.6	75.3	62.8	51.2	41.0
102.5°	82.2	83.0	79.5	76.3	70.9	64.7	57.4	50.5	41.4	33.9	27.2
105°	59.5	59.7	57.8	54.1	50.3	46.6	41.2	35.8	29.7	24.1	19.1
107.5°	46.2	46.2	44.7	41.8	39.3	35.6	31.6	27.2	22.3	17.9	13.5
110°	37.0	37.0	35.8	33.9	31.2	28.3	25.0	21.2	17.1	13.5	10.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	30.4	30.2	29.3	27.2	25.2	22.9	19.8	16.6	13.1	10.0	7.3
115°	25.0	24.8	23.9	22.3	20.4	18.3	15.6	12.9	10.0	6.9	3.1
117.5°	20.4	20.4	19.3	18.3	16.4	14.6	12.1	9.8	6.4	2.3	1.0
120°	16.4	16.4	15.8	14.4	12.9	11.0	8.5	5.4	1.5	1.0	0.8
122.5°	12.7	12.7	12.1	10.6	8.5	6.0	3.1	1.0	0.8	1.0	0.8
125°	7.1	6.9	5.8	4.4	2.3	1.0	0.8	0.8	0.6	0.8	0.8
127.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.8	0.8	0.8
130°	0.8	0.8	0.8	0.8	0.6	0.8	0.8	0.8	0.8	1.0	0.8
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	0.8	0.8	0.6	0.8
137.5°	0.6	0.6	0.8	0.6	0.6	0.8	0.8	0.8	1.0	0.8	0.8
140°	0.6	0.4	0.6	0.4	0.4	0.6	0.6	0.6	0.6	0.8	0.8
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°	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6
2.5°	233.6	231.7	230.9	229.0	227.3	225.7	224.0	221.9	219.0	215.5	213.0
5°	245.2	242.1	239.4	236.1	232.8	229.4	225.3	220.9	215.3	209.7	204.3
7.5°	255.0	251.1	247.1	241.9	237.3	232.1	226.3	219.4	211.7	203.2	194.7
10°	264.0	258.8	253.1	246.7	240.7	234.0	226.3	217.4	207.4	195.9	184.3
12.5°	272.1	265.6	258.5	250.8	242.9	235.0	225.5	214.9	202.0	187.6	172.8
15°	278.5	270.8	262.7	253.3	243.8	234.4	223.4	210.5	195.5	178.3	159.7
17.5°	285.2	276.0	266.4	255.6	244.6	233.8	221.1	206.3	188.9	168.5	147.3
20°	290.0	280.0	269.2	257.1	244.4	232.3	218.2	200.9	181.2	158.5	134.4
22.5°	294.3	283.1	270.8	257.9	243.8	229.8	214.4	195.3	173.5	147.9	122.1
25°	298.5	285.4	272.3	257.7	241.9	226.9	210.3	189.7	165.2	137.3	110.2
27.5°	302.2	287.2	272.7	256.9	240.0	223.8	205.7	183.7	156.8	127.1	99.0
30°	304.5	288.5	272.7	255.2	237.1	219.4	200.3	176.4	147.9	116.3	88.6
32.5°	305.8	289.3	272.1	253.3	233.6	214.7	194.1	169.3	138.9	106.1	78.8
35°	307.0	289.5	271.2	250.8	230.0	209.5	187.2	161.4	129.8	96.3	70.5
37.5°	307.4	288.7	269.8	248.6	225.9	204.0	180.8	153.9	120.8	86.9	63.0
40°	307.6	287.7	267.3	245.2	221.3	198.2	173.7	145.8	111.9	78.4	56.2
42.5°	306.8	285.8	264.8	241.1	215.5	191.2	165.6	136.7	102.1	69.9	49.5
45°	305.3	283.7	261.0	236.3	209.7	183.5	157.2	128.5	94.2	62.4	44.1
47.5°	302.8	280.2	256.3	230.5	202.2	175.1	148.5	119.8	85.5	55.7	38.5
50°	299.9	276.2	251.1	223.2	193.9	166.8	140.4	111.1	77.6	49.7	33.5
52.5°	295.4	270.8	244.2	215.5	185.7	158.3	131.5	102.5	69.9	43.5	28.7
55°	290.4	264.6	236.9	207.0	177.4	149.1	122.1	94.0	62.6	37.6	24.1
57.5°	283.9	257.1	228.2	198.4	168.5	140.2	113.4	85.5	55.1	32.7	19.6
60°	276.8	249.0	219.2	189.9	159.3	130.8	104.0	77.2	48.5	27.7	15.6
62.5°	268.5	239.6	210.3	180.5	149.8	120.8	94.4	68.2	41.8	23.1	12.1
65°	260.0	230.0	200.9	171.0	139.6	110.9	84.7	60.1	35.6	18.3	8.5
67.5°	250.0	220.1	190.3	160.0	129.0	100.3	74.5	51.4	29.3	13.7	5.2
70°	241.1	210.1	179.9	149.1	117.9	89.2	64.7	43.1	23.1	9.6	2.5
72.5°	232.1	200.5	169.3	137.7	106.7	78.2	55.3	35.4	17.7	6.2	1.5
75°	223.0	190.9	158.9	126.3	94.6	68.0	46.0	28.1	12.5	3.3	1.0
77.5°	213.4	181.4	148.3	115.0	83.4	57.6	37.2	21.2	8.3	1.7	1.0
80°	203.4	171.2	137.7	104.2	73.2	48.3	28.9	15.4	5.0	1.2	0.8
82.5°	192.8	160.4	126.7	93.6	63.2	39.3	21.8	10.2	2.1	0.8	0.8
85°	180.5	148.9	115.9	83.6	54.3	31.4	16.0	5.8	1.2	0.8	0.8
87.5°	165.8	135.0	103.2	72.6	45.3	25.2	10.8	3.1	1.2	1.2	1.0
90°	145.8	116.9	86.9	59.1	35.2	17.9	6.7	1.0	1.0	1.0	0.8
92.5°	119.0	92.1	65.9	43.1	23.9	10.4	2.9	1.0	1.2	1.0	0.8
95°	83.8	62.0	42.6	26.4	13.1	4.2	1.2	1.0	1.2	0.8	0.8
97.5°	51.4	37.2	24.8	13.9	6.0	1.2	0.8	1.0	1.0	0.8	0.8
100°	31.4	22.3	14.1	7.3	2.9	1.0	0.8	1.0	1.2	0.8	1.0
102.5°	20.4	13.9	8.3	4.0	0.8	0.8	0.8	1.0	1.0	0.8	1.0
105°	13.7	8.9	5.0	1.2	0.8	0.6	0.8	0.8	0.8	0.8	1.0
107.5°	9.6	5.8	1.7	1.0	0.6	0.6	0.8	0.8	0.8	0.8	0.8
110°	6.4	2.5	1.0	1.0	0.8	0.8	0.6	0.8	0.8	0.8	0.8



TEST NUMBER: P273383

CATALOG NUMBER: 0.03-5W-835-90-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	3.1	1.0	1.0	1.0	0.8	0.8	0.8	0.8	1.0	0.8	0.8
115°	0.8	0.8	0.8	0.8	0.6	0.8	0.8	0.8	0.8	0.8	0.8
117.5°	0.8	0.8	0.8	0.8	0.8	0.6	0.8	0.8	0.8	0.6	0.6
120°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
122.5°	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
125°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.6
127.5°	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
130°	0.8	1.0	1.0	0.8	1.0	0.8	1.0	1.0	1.0	1.0	1.0
132.5°	0.6	0.6	0.8	0.8	0.6	0.8	0.8	0.6	0.8	0.8	0.8
135°	0.8	0.8	0.8	0.8	1.0	1.0	0.8	0.8	1.0	1.0	1.0
137.5°	0.8	1.0	1.0	1.0	1.0	1.2	1.2	1.0	1.2	1.2	1.2
140°	0.8	1.0	0.8	0.8	1.0	0.8	1.0	1.0	1.0	1.0	1.0
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



TEST NUMBER: P273383

CATALOG NUMBER: 0.03-5W-835-90-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6
2.5°	210.3	207.4	204.9	201.8	198.4	196.4	194.1	191.2	190.1	187.6	186.0
5°	199.1	193.2	187.8	182.0	175.8	171.2	167.0	162.2	158.7	155.0	153.7
7.5°	186.2	177.6	168.9	159.7	151.2	144.4	138.5	132.3	127.5	124.6	121.1
10°	172.2	160.6	148.1	137.5	127.5	119.4	113.4	107.1	102.3	98.2	96.3
12.5°	157.5	143.3	129.2	117.3	108.0	100.5	94.0	89.4	85.9	83.0	80.5
15°	141.9	125.2	111.3	99.6	90.9	84.9	79.7	76.1	73.6	70.9	69.1
17.5°	127.3	110.7	95.9	86.5	79.7	74.3	69.9	66.4	63.9	61.6	59.9
20°	113.4	96.7	84.4	75.9	69.9	64.7	60.7	57.4	54.9	52.8	51.0
22.5°	100.5	85.1	74.3	66.6	60.9	56.4	52.2	48.7	46.6	44.3	42.2
25°	89.2	75.5	65.1	58.2	53.5	48.7	44.7	41.0	38.5	36.0	34.1
27.5°	79.2	66.6	57.6	51.2	46.2	41.4	37.2	34.1	31.0	28.5	26.6
30°	70.5	59.1	51.0	44.3	39.3	34.1	30.4	26.6	24.1	21.4	19.3
32.5°	62.6	52.0	44.5	38.1	32.9	27.9	23.9	20.6	17.5	14.8	12.3
35°	55.7	45.8	38.1	32.0	27.0	22.3	18.5	14.8	11.2	8.5	6.4
37.5°	49.1	39.9	32.9	26.6	21.6	17.1	12.9	8.9	6.0	4.0	2.9
40°	43.3	34.9	27.5	22.0	16.8	12.1	8.1	4.8	2.5	1.2	0.6
42.5°	37.9	29.3	22.7	17.1	12.1	7.3	4.2	1.7	0.6	0.4	0.2
45°	32.9	25.0	18.5	12.9	7.9	3.7	1.5	1.0	0.6	0.4	0.2
47.5°	27.9	20.6	14.4	8.5	4.2	1.5	0.8	0.6	0.4	0.4	0.2
50°	23.5	16.4	10.4	5.0	1.9	0.8	0.6	0.6	0.4	0.4	0.2
52.5°	19.1	12.5	6.0	2.1	0.8	0.6	0.4	0.4	0.2	0.4	0.2
55°	15.4	8.5	3.3	1.0	0.6	0.4	0.4	0.4	0.4	0.2	0.2
57.5°	12.1	5.2	1.5	0.8	0.6	0.6	0.4	0.4	0.4	0.2	0.2
60°	8.5	2.9	1.2	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
62.5°	5.2	1.5	0.8	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2
65°	2.9	1.2	0.8	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4
67.5°	1.2	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2	0.2
70°	0.8	0.8	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.2	0.4
72.5°	1.0	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4
77.5°	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.2
80°	0.8	1.0	1.0	0.8	0.6	0.6	0.4	0.4	0.6	0.4	0.4
82.5°	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4
85°	1.0	1.0	1.0	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4
87.5°	1.0	1.2	1.2	1.0	0.8	0.8	0.6	0.6	0.4	0.6	0.4
90°	0.8	0.8	0.8	0.8	0.6	0.6	0.4	0.6	0.4	0.4	0.2
92.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.4	0.4	0.4	0.4
95°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.4	0.4
97.5°	1.0	1.0	0.8	0.8	0.8	0.6	0.6	0.4	0.4	0.4	0.4
100°	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.6	0.6	0.6	0.6
102.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.4
105°	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.4
107.5°	0.6	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.6	0.4	0.4
110°	0.6	0.6	0.8	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4



TEST NUMBER: P273383

CATALOG NUMBER: 0.03-5W-835-90-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	0.8	0.8	0.6	0.6	0.6	0.6	0.4	0.4	0.4
115°	0.8	0.8	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
117.5°	0.8	0.8	0.6	0.6	0.4	0.6	0.6	0.4	0.4	0.4	0.2
120°	0.8	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
122.5°	0.8	0.8	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.4	0.2
125°	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2
127.5°	0.8	0.8	0.6	0.8	0.6	0.6	0.4	0.6	0.4	0.4	0.4
130°	0.8	0.8	0.8	1.0	0.8	0.6	0.6	0.6	0.4	0.6	0.4
132.5°	0.6	0.6	0.8	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4
135°	1.0	1.0	1.0	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
137.5°	1.0	1.0	1.0	1.0	0.8	1.0	0.8	0.8	0.8	0.6	0.6
140°	1.0	1.0	0.8	1.0	0.8	0.8	0.8	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: P273383

CATALOG NUMBER: 0.03-5W-835-90-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	218.6	218.6	218.6	218.6
2.5°	184.9	185.7	184.7	183.0
5°	150.6	150.8	149.1	147.1
7.5°	117.9	117.5	115.9	114.0
10°	94.2	93.4	92.1	90.9
12.5°	78.4	77.6	77.4	76.1
15°	67.2	66.4	66.1	65.5
17.5°	58.7	57.8	57.4	57.2
20°	49.7	49.1	48.5	48.0
22.5°	41.2	40.4	39.7	39.1
25°	32.9	32.0	31.2	31.8
27.5°	25.4	24.3	23.1	23.5
30°	17.5	16.6	15.6	15.6
32.5°	10.4	9.2	8.3	8.1
35°	4.8	4.0	3.3	3.1
37.5°	1.7	1.0	0.6	0.8
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: P273383

CATALOG NUMBER: 0.03-5W-835-90-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)