

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: PORTFOLIO

Report Number: P246162

Luminaire Tested: **LSR8B10D010 EC8B10927 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10927 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 801.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

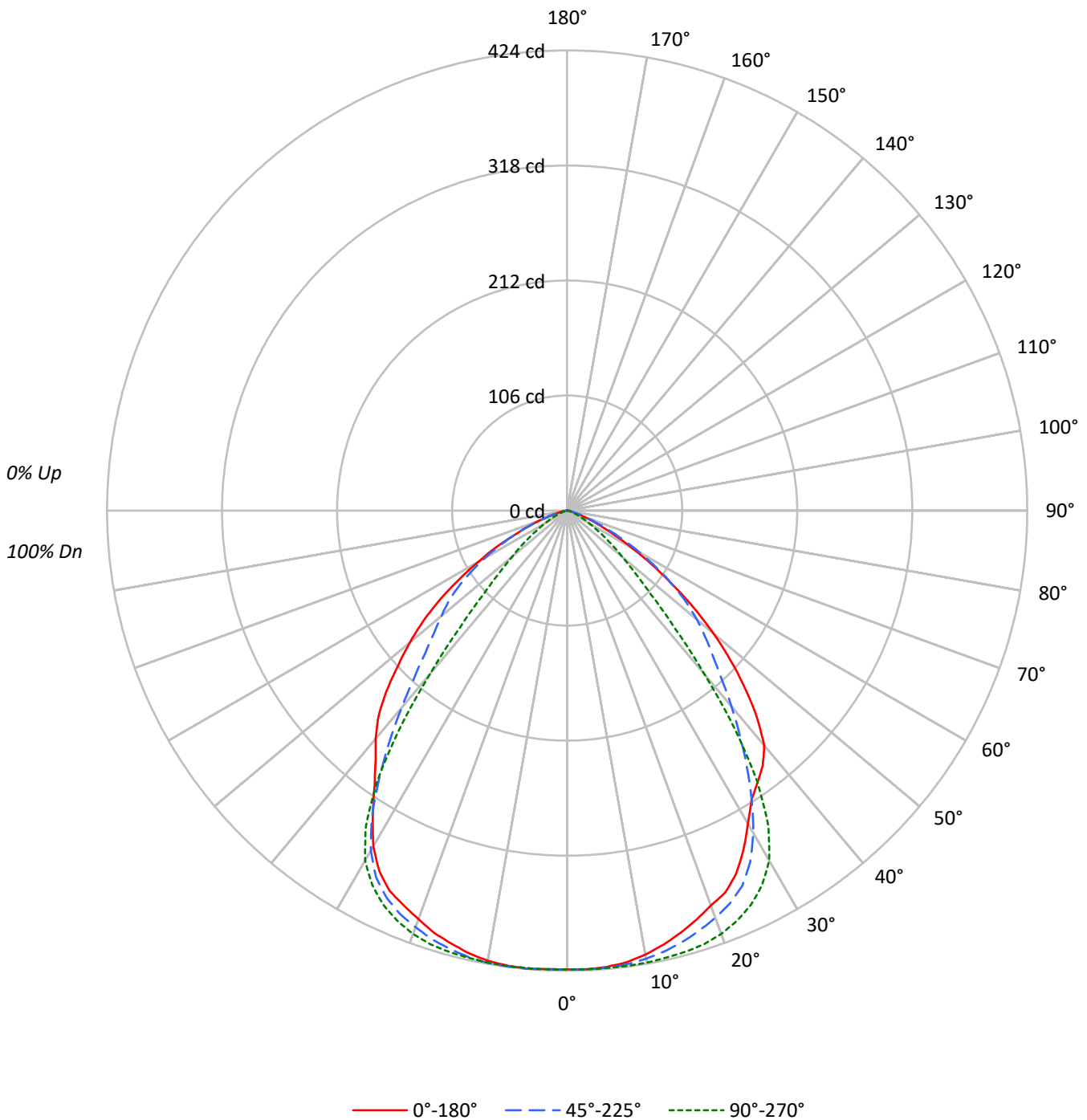
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13035	13035	13035
5°	13063	13097	13112
10°	13007	13242	13185
15°	12862	13437	13181
20°	12706	13622	13146
25°	12545	13637	13161
30°	11864	13256	12715
35°	11512	11519	11640
40°	11368	7926	11050
45°	10130	4758	10270
50°	8424	3166	9076
55°	6322	2183	7693
60°	4280	1455	5810
65°	2583	941	3991
70°	1434	505	2452
75°	643	214	1275
80°	568	231	888
85°	637	318	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	5.0
10°-20°	117.1	14.6
20°-30°	177.8	22.2
30°-40°	186.7	23.3
40°-50°	140.0	17.5
50°-60°	89.8	11.2
60°-70°	38.4	4.8
70°-80°	9.1	1.1
80°-90°	1.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	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°	335.3	41.9
0°-40°	522.0	65.2
0°-60°	751.8	93.9
0°-90°	801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	801.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	423	423	423	423	423	
5°	422	423	423	424	424	40
15°	403	411	421	418	413	114
25°	369	382	401	394	387	168
35°	306	289	306	302	309	192
45°	232	190	109	184	236	178
55°	118	118	41	122	143	107
65°	35	42	13	54	55	38
75°	5	6	2	11	11	8
85°	2	1	1	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	422.9	423.3	423.1	423.1	422.9	423.1	423.1	423.6	423.6	423.1	422.9
5°	422.0	422.4	422.4	422.0	422.0	423.1	422.4	422.9	422.9	422.7	422.7
7.5°	419.8	419.8	420.9	420.1	420.1	420.9	420.5	421.1	421.5	421.8	421.8
10°	415.4	415.8	416.0	416.0	416.2	416.9	417.4	418.3	418.7	419.2	419.4
12.5°	409.7	410.4	410.6	410.4	411.1	412.0	413.1	414.2	414.9	415.8	416.5
15°	402.9	402.9	403.3	404.0	404.4	405.8	407.0	408.4	410.2	411.3	412.4
17.5°	395.4	395.9	396.6	396.6	397.5	399.7	400.4	402.4	404.4	405.6	407.9
20°	387.2	387.7	388.3	388.8	389.9	391.7	393.2	395.0	397.2	399.3	401.5
22.5°	380.9	380.0	380.5	380.9	382.0	383.6	385.2	387.4	389.7	391.7	394.1
25°	368.7	368.9	369.6	370.0	371.4	372.7	374.5	377.2	379.3	381.6	384.1
27.5°	352.1	352.3	353.5	353.5	354.6	356.8	358.0	360.2	362.9	365.2	368.2
30°	333.2	333.7	333.7	334.6	335.2	336.4	337.5	339.9	341.2	343.2	347.3
32.5°	316.0	316.5	316.2	316.0	315.3	315.1	314.9	315.3	315.8	316.5	318.0
35°	305.8	304.7	303.8	302.2	300.4	298.1	296.0	293.3	290.8	288.8	286.5
37.5°	296.0	295.8	294.4	292.2	288.6	284.5	279.7	273.8	267.9	261.6	255.5
40°	282.4	281.7	280.6	277.4	273.4	268.3	262.0	254.7	245.2	235.5	225.4
42.5°	259.3	259.5	258.2	255.7	251.8	247.0	240.4	232.5	222.3	210.7	197.8
45°	232.3	232.3	231.9	229.8	227.0	223.2	218.2	211.6	201.7	189.9	176.1
47.5°	204.2	204.4	203.7	203.3	202.2	199.6	196.0	191.0	183.9	172.7	158.8
50°	175.6	175.6	176.7	176.5	176.5	175.6	174.0	171.0	164.9	155.8	142.9
52.5°	147.0	147.5	148.2	149.1	150.2	152.0	150.2	148.8	144.9	137.9	126.8
55°	117.6	118.0	119.1	120.7	122.1	123.9	124.3	124.3	122.3	117.6	109.1
57.5°	92.4	91.7	92.6	93.9	95.7	97.5	98.9	100.5	100.2	97.1	90.3
60°	69.4	69.6	70.3	71.7	73.0	74.6	76.5	77.9	78.5	77.0	72.6
62.5°	50.6	50.6	51.5	52.9	53.6	55.8	56.9	57.6	58.3	58.0	55.4
65°	35.4	35.9	36.3	37.0	37.7	39.0	39.7	41.1	41.5	41.7	39.7
67.5°	25.0	24.3	24.8	25.2	25.9	26.8	28.1	28.1	28.8	28.8	27.4
70°	15.9	15.9	16.1	16.8	17.2	17.4	17.9	18.3	19.0	18.8	18.8
72.5°	10.7	10.5	10.7	10.9	11.1	11.8	11.8	12.0	12.5	12.7	11.8
75°	5.4	5.6	6.1	5.9	6.5	6.1	6.3	7.1	6.8	6.3	6.3
77.5°	4.5	4.5	4.5	4.3	4.7	4.7	4.5	5.0	4.7	4.7	4.5
80°	3.2	3.4	3.2	2.9	3.2	2.9	2.9	2.9	2.9	2.9	2.7
82.5°	2.5	2.0	2.2	2.0	2.2	2.2	2.0	1.8	1.8	2.0	1.8
85°	1.8	1.3	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.1	1.1
87.5°	1.1	0.7	0.7	0.7	0.9	0.9	0.9	0.7	0.9	0.9	0.4
90°	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°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	423.3	423.1	423.6	423.3	423.3	423.1	423.3	423.1	423.6	422.7	422.9
5°	423.3	422.9	423.1	423.3	423.6	423.1	423.1	423.1	423.6	423.1	423.3
7.5°	422.4	422.2	422.9	423.3	423.1	422.9	423.3	423.1	423.6	423.3	423.8
10°	420.5	420.9	421.3	422.0	422.2	422.4	422.9	422.9	423.6	422.7	423.1
12.5°	417.8	418.7	419.8	420.3	421.3	421.3	421.8	422.0	422.4	422.2	422.9
15°	414.4	415.6	416.9	418.0	419.2	419.8	420.5	420.9	421.5	420.9	421.1
17.5°	410.4	411.8	413.8	415.1	416.9	417.6	418.5	419.0	419.6	419.2	419.4
20°	404.7	406.2	408.6	410.6	411.8	413.3	414.4	415.1	415.6	415.1	415.4
22.5°	396.8	399.0	402.0	403.5	405.8	407.2	407.5	409.0	410.2	409.0	409.5
25°	387.4	389.7	392.0	395.4	397.5	399.0	400.6	400.8	402.0	401.7	401.5
27.5°	372.0	375.0	378.8	381.6	384.3	386.8	388.6	389.0	390.2	389.7	389.9
30°	350.9	354.2	357.8	362.0	366.0	368.4	370.7	372.3	373.4	372.7	372.5
32.5°	321.0	324.2	328.0	332.3	336.8	340.5	343.2	345.3	346.6	346.2	345.0
35°	286.8	287.7	290.1	293.5	297.4	301.3	303.8	306.0	307.6	308.0	308.0
37.5°	251.6	248.6	246.8	246.8	249.1	250.6	252.9	254.2	256.8	257.7	258.4
40°	217.6	210.7	204.4	199.6	196.4	196.2	196.2	196.9	199.1	202.2	204.9
42.5°	187.2	176.3	166.5	157.6	151.3	147.7	146.1	146.4	148.2	150.9	155.4
45°	162.9	149.3	137.0	126.3	117.8	112.0	109.4	109.1	110.5	113.6	118.7
47.5°	144.0	129.5	115.6	103.4	94.2	88.0	84.8	83.9	84.8	87.8	93.7
50°	128.4	113.4	99.1	86.4	76.5	70.1	67.2	66.0	67.2	69.6	75.5
52.5°	113.8	98.4	85.0	72.8	62.2	56.7	53.6	52.9	53.6	56.5	61.2
55°	97.1	83.9	70.8	58.5	49.3	43.8	41.3	40.6	41.3	44.0	49.1
57.5°	80.6	69.2	57.6	46.5	38.6	33.8	31.5	30.6	32.2	34.0	39.9
60°	65.1	56.0	46.2	36.6	29.9	25.6	23.8	23.6	24.1	26.3	30.4
62.5°	51.1	43.5	35.9	27.9	22.5	20.6	18.3	18.1	18.6	19.9	23.2
65°	36.8	32.0	26.1	20.4	16.1	13.6	12.7	12.9	13.4	14.3	17.2
67.5°	25.6	22.3	18.1	14.3	11.1	10.0	9.1	8.9	9.1	10.7	12.3
70°	17.2	15.2	12.3	10.9	7.8	6.1	6.3	5.6	6.5	6.5	8.0
72.5°	11.4	10.0	8.2	6.3	5.4	4.3	4.3	4.0	4.5	4.7	5.9
75°	5.9	4.5	4.5	3.2	2.2	1.1	2.0	1.8	1.6	1.8	2.2
77.5°	4.0	3.4	3.2	2.5	2.2	1.8	1.8	1.8	1.8	2.0	2.2
80°	2.5	2.5	1.8	1.6	1.3	1.1	1.3	1.3	1.3	1.3	1.6
82.5°	1.6	1.3	1.3	1.1	1.1	0.9	0.9	0.9	0.9	0.9	1.3
85°	1.3	0.9	0.9	0.7	0.9	1.6	0.7	0.9	0.9	0.9	0.7
87.5°	0.4	0.7	0.7	0.7	0.4	0.2	0.4	0.7	0.7	1.1	0.9
90°	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	423.3	423.6	423.6	423.3	423.3	422.9	423.8	423.1	423.3	424.2	423.6
5°	423.8	424.0	424.0	423.8	423.8	423.8	424.0	424.0	423.8	423.6	424.0
7.5°	424.7	424.5	424.5	424.0	424.0	423.6	424.0	423.3	423.8	423.3	424.0
10°	423.6	423.8	423.6	423.3	423.3	423.1	423.1	422.4	422.7	422.0	422.4
12.5°	422.9	422.7	422.7	422.2	421.8	421.3	421.1	420.3	420.3	418.7	419.4
15°	421.1	421.3	420.5	419.6	419.2	418.0	417.6	416.7	415.8	414.7	414.9
17.5°	419.4	418.7	417.8	416.9	415.1	414.2	413.3	412.0	411.5	410.2	409.7
20°	414.7	414.2	413.1	411.5	410.4	408.4	407.5	406.0	404.9	403.5	402.9
22.5°	408.6	408.2	406.7	405.1	403.3	402.4	401.5	399.0	397.9	396.6	396.3
25°	400.8	400.2	398.8	397.0	396.1	393.6	392.6	390.8	390.4	389.0	388.8
27.5°	389.0	388.1	386.6	384.3	382.7	381.2	380.2	378.8	378.3	377.0	376.8
30°	371.4	370.2	367.1	366.2	363.4	361.8	361.8	360.0	360.2	359.3	359.3
32.5°	343.5	341.7	339.2	337.3	335.5	334.6	334.6	333.9	334.3	334.3	334.8
35°	306.4	304.0	302.6	301.5	301.5	302.4	305.1	305.8	307.1	308.2	309.2
37.5°	259.1	258.9	260.4	261.8	265.2	269.1	273.8	277.9	281.7	284.5	287.2
40°	207.8	213.4	218.0	224.3	229.6	237.0	245.7	252.7	259.3	264.0	269.1
42.5°	162.2	169.4	179.0	188.3	197.5	207.8	219.2	228.9	237.5	244.1	249.3
45°	126.3	136.4	147.9	159.8	171.7	184.4	196.2	206.2	215.3	222.1	227.2
47.5°	101.8	112.7	125.9	138.8	152.4	165.8	179.0	187.6	195.1	200.6	205.3
50°	84.1	95.7	109.6	124.3	137.9	151.3	162.7	171.0	177.2	181.9	184.8
52.5°	70.3	82.6	97.3	112.0	125.7	137.9	148.2	154.5	159.5	162.9	165.6
55°	58.0	69.9	83.7	97.5	110.9	122.5	130.8	135.7	139.5	141.5	143.1
57.5°	47.4	58.3	71.0	83.7	95.3	104.8	111.4	116.1	118.0	119.6	119.4
60°	37.2	47.4	59.0	69.9	79.9	87.5	92.4	95.1	96.4	97.1	96.6
62.5°	29.2	38.6	47.4	56.9	64.2	70.8	75.3	75.3	76.0	76.3	77.0
65°	21.8	28.8	36.6	43.5	49.5	53.8	56.2	56.9	57.8	57.6	57.2
67.5°	16.1	21.4	27.0	32.2	36.3	39.0	40.8	42.4	42.2	41.7	41.5
70°	11.1	14.5	19.5	22.7	25.6	28.4	28.8	29.0	29.2	29.5	29.0
72.5°	7.8	10.2	12.9	15.6	17.4	18.6	19.7	19.9	19.9	19.9	19.7
75°	3.8	5.2	7.8	8.9	10.5	10.9	11.8	11.8	12.5	11.6	11.4
77.5°	3.4	4.0	5.4	6.3	7.1	7.8	8.0	8.7	8.4	8.0	8.2
80°	2.0	2.5	3.4	3.8	4.7	5.0	5.2	5.4	5.2	5.4	5.4
82.5°	1.6	1.8	2.2	2.2	2.9	2.9	3.2	3.2	3.4	3.4	3.4
85°	0.9	1.6	1.3	2.7	1.8	1.8	2.2	2.7	2.2	2.2	2.7
87.5°	0.9	0.9	0.7	0.9	0.9	0.9	1.1	1.3	1.3	1.6	1.3
90°	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):

	165°	170°	175°	180°
0°	422.7	422.7	422.7	422.7
2.5°	423.3	423.8	423.1	422.9
5°	424.0	424.0	423.6	423.6
7.5°	424.0	424.0	423.3	422.9
10°	422.2	422.2	421.5	421.1
12.5°	418.7	418.7	418.5	417.8
15°	414.4	414.4	413.6	412.9
17.5°	408.6	409.0	407.9	407.9
20°	402.2	402.0	401.1	400.6
22.5°	395.7	395.2	395.0	393.6
25°	388.6	388.1	387.4	386.8
27.5°	376.5	376.3	375.6	374.7
30°	358.2	358.0	357.1	357.1
32.5°	334.3	334.1	333.2	333.4
35°	309.6	310.6	310.0	309.2
37.5°	289.0	289.7	290.1	289.7
40°	271.8	273.8	274.0	274.5
42.5°	253.4	256.2	257.1	257.5
45°	231.4	233.9	235.9	235.5
47.5°	208.9	210.7	212.5	211.2
50°	187.4	188.5	189.2	189.2
52.5°	167.0	167.0	166.7	167.0
55°	143.5	143.5	142.6	143.1
57.5°	119.1	119.6	118.9	117.8
60°	96.4	95.3	94.8	94.2
62.5°	75.0	75.0	73.5	75.5
65°	56.2	55.6	54.9	54.7
67.5°	40.8	40.6	39.9	39.7
70°	28.8	27.9	27.7	27.2
72.5°	19.2	19.2	18.8	18.8
75°	11.8	10.7	10.5	10.7
77.5°	8.2	8.0	8.0	7.8
80°	5.4	5.2	5.6	5.0
82.5°	3.4	3.6	3.4	3.6
85°	2.2	2.7	2.5	2.5
87.5°	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)