

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: P246090

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246090
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 EC8B109727 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 787.0 lumens
Efficiency: N/A
Efficacy: 77.2 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

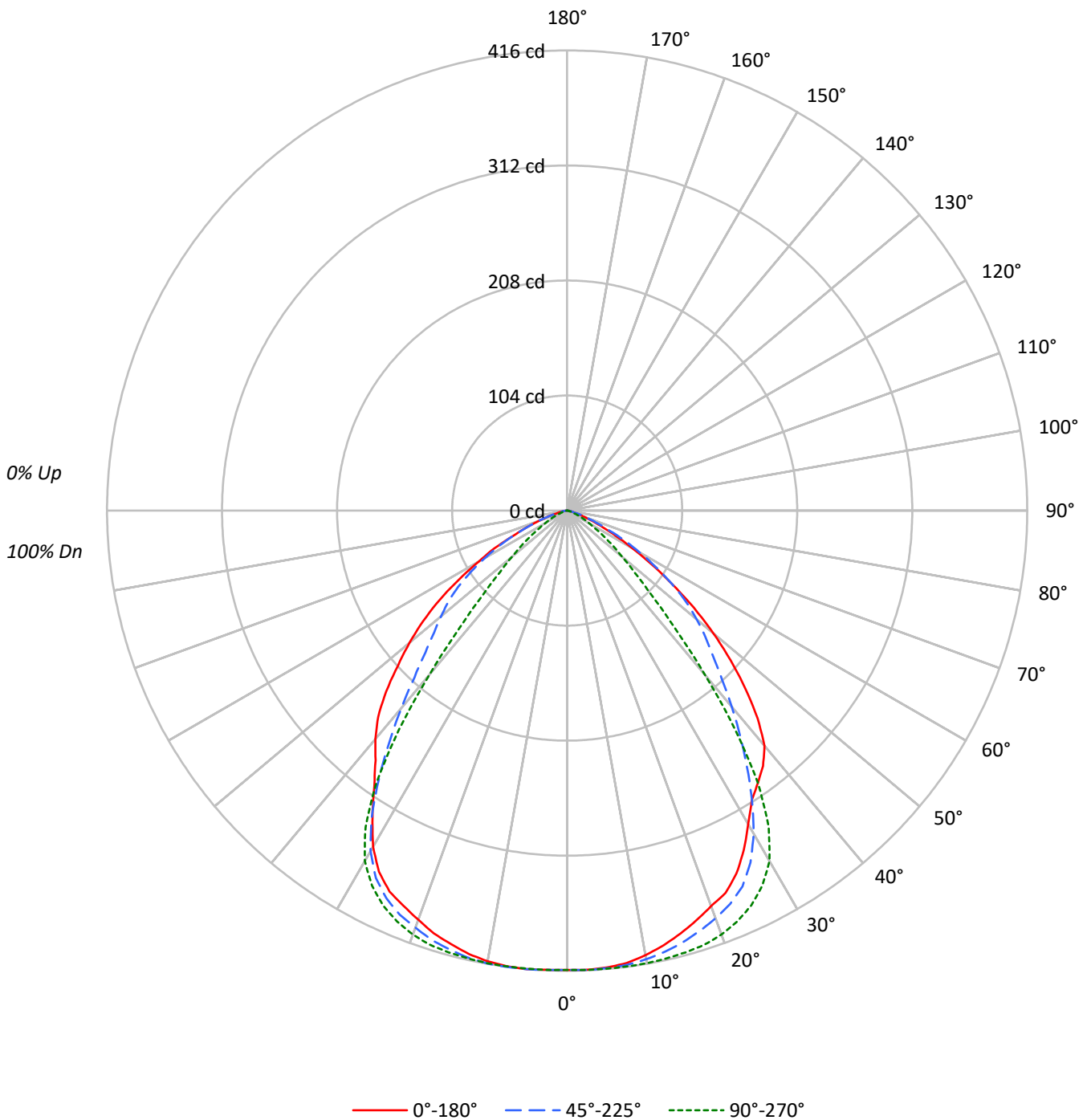
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	51	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°	12803	12803	12803
5°	12834	12868	12880
10°	12778	13010	12954
15°	12636	13201	12952
20°	12486	13385	12916
25°	12324	13399	12929
30°	11658	13025	12491
35°	11312	11320	11436
40°	11170	7789	10856
45°	9952	4675	10091
50°	8275	3113	8918
55°	6209	2145	7559
60°	4206	1431	5705
65°	2539	927	3918
70°	1406	505	2407
75°	643	214	1251
80°	550	231	870
85°	637	318	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	5.0
10°-20°	115.1	14.6
20°-30°	174.7	22.2
30°-40°	183.5	23.3
40°-50°	137.6	17.5
50°-60°	88.3	11.2
60°-70°	37.8	4.8
70°-80°	8.9	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°	329.4	41.9
0°-40°	512.9	65.2
0°-60°	738.7	93.9
0°-90°	787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	787.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	415	415	415	415	415	
5°	415	415	416	416	416	39
15°	396	404	414	411	406	112
25°	362	375	394	387	380	165
35°	300	284	301	297	304	189
45°	228	187	107	181	231	175
55°	116	116	40	120	141	105
65°	35	41	13	53	54	37
75°	5	6	2	11	10	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°	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2
2.5°	415.5	415.9	415.7	415.7	415.5	415.7	415.7	416.1	416.1	415.7	415.5
5°	414.6	415.0	415.0	414.6	414.6	415.7	415.0	415.5	415.5	415.2	415.2
7.5°	412.6	412.6	413.5	412.8	412.8	413.5	413.2	413.7	414.1	414.3	414.3
10°	408.1	408.6	408.8	408.8	409.0	409.7	410.1	411.0	411.4	411.9	412.1
12.5°	402.5	403.2	403.4	403.2	403.9	404.8	405.9	407.0	407.7	408.6	409.2
15°	395.8	395.8	396.3	397.0	397.4	398.7	399.9	401.2	403.0	404.1	405.2
17.5°	388.5	388.9	389.6	389.6	390.5	392.7	393.4	395.4	397.4	398.5	400.8
20°	380.5	380.9	381.6	382.0	383.1	384.9	386.3	388.0	390.3	392.3	394.5
22.5°	374.2	373.3	373.8	374.2	375.3	376.9	378.5	380.7	382.9	384.9	387.2
25°	362.2	362.4	363.1	363.5	364.9	366.2	368.0	370.7	372.7	374.9	377.3
27.5°	345.9	346.1	347.3	347.3	348.4	350.6	351.7	353.9	356.6	358.8	361.7
30°	327.4	327.9	327.9	328.8	329.4	330.5	331.7	333.9	335.2	337.2	341.2
32.5°	310.5	310.9	310.7	310.5	309.8	309.6	309.4	309.8	310.3	310.9	312.5
35°	300.5	299.3	298.4	296.9	295.1	292.9	290.9	288.2	285.7	283.7	281.5
37.5°	290.9	290.6	289.3	287.1	283.5	279.5	274.8	269.0	263.2	257.0	251.0
40°	277.5	276.8	275.7	272.6	268.6	263.7	257.4	250.3	240.9	231.4	221.5
42.5°	254.8	255.0	253.6	251.2	247.4	242.7	236.3	228.5	218.4	207.1	194.4
45°	228.2	228.2	227.8	225.8	223.1	219.3	214.4	208.0	198.1	186.6	173.0
47.5°	200.6	200.8	200.1	199.7	198.6	196.1	192.6	187.7	180.8	169.6	156.0
50°	172.5	172.5	173.6	173.4	173.4	172.5	171.0	168.1	162.0	153.1	140.4
52.5°	144.4	144.9	145.5	146.4	147.5	149.3	147.5	146.2	142.4	135.5	124.6
55°	115.5	115.9	117.0	118.6	119.9	121.7	122.1	122.1	120.1	115.5	107.2
57.5°	90.7	90.0	90.9	92.3	94.1	95.8	97.2	98.7	98.5	95.4	88.7
60°	68.2	68.4	69.1	70.4	71.8	73.3	75.1	76.4	77.1	75.6	71.3
62.5°	49.7	49.7	50.6	51.9	52.6	54.8	55.9	56.6	57.3	57.1	54.4
65°	34.8	35.2	35.7	36.3	37.0	38.3	39.0	40.3	40.8	41.0	39.0
67.5°	24.5	23.8	24.3	24.7	25.4	26.3	27.6	27.6	28.3	28.3	27.0
70°	15.6	15.6	15.8	16.5	16.9	17.2	17.6	18.1	18.7	18.5	18.5
72.5°	10.5	10.3	10.5	10.7	10.9	11.6	11.6	11.8	12.3	12.5	11.6
75°	5.4	5.6	6.0	5.8	6.5	6.0	6.2	6.9	6.7	6.2	6.2
77.5°	4.5	4.5	4.5	4.2	4.7	4.7	4.5	4.9	4.7	4.7	4.5
80°	3.1	3.3	3.1	2.9	3.1	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°	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2
2.5°	415.9	415.7	416.1	415.9	415.9	415.7	415.9	415.7	416.1	415.2	415.5
5°	415.9	415.5	415.7	415.9	416.1	415.7	415.7	415.7	416.1	415.7	415.9
7.5°	415.0	414.8	415.5	415.9	415.7	415.5	415.9	415.7	416.1	415.9	416.3
10°	413.2	413.5	413.9	414.6	414.8	415.0	415.5	415.5	416.1	415.2	415.7
12.5°	410.6	411.4	412.6	413.0	413.9	413.9	414.3	414.6	415.0	414.8	415.5
15°	407.2	408.3	409.7	410.8	411.9	412.6	413.2	413.5	414.1	413.5	413.7
17.5°	403.2	404.5	406.5	407.9	409.7	410.3	411.2	411.7	412.3	411.9	412.1
20°	397.6	399.2	401.4	403.4	404.5	406.1	407.2	407.9	408.3	407.9	408.1
22.5°	389.8	392.1	395.0	396.5	398.7	400.1	400.3	401.9	403.0	401.9	402.3
25°	380.7	382.9	385.1	388.5	390.5	392.1	393.6	393.8	395.0	394.7	394.5
27.5°	365.5	368.4	372.2	374.9	377.6	380.0	381.8	382.2	383.4	382.9	383.1
30°	344.8	347.9	351.5	355.7	359.5	362.0	364.2	365.8	366.9	366.2	366.0
32.5°	315.4	318.5	322.3	326.5	331.0	334.5	337.2	339.2	340.6	340.1	339.0
35°	281.7	282.6	285.1	288.4	292.2	296.0	298.4	300.7	302.2	302.7	302.7
37.5°	247.2	244.3	242.5	242.5	244.7	246.3	248.5	249.9	252.3	253.2	253.9
40°	213.7	207.1	200.8	196.1	193.0	192.8	192.8	193.5	195.7	198.6	201.3
42.5°	183.9	173.2	163.6	154.9	148.7	145.1	143.5	143.8	145.5	148.2	152.7
45°	160.0	146.7	134.6	124.1	115.7	110.1	107.4	107.2	108.5	111.7	116.6
47.5°	141.5	127.3	113.7	101.6	92.5	86.5	83.4	82.5	83.4	86.3	92.1
50°	126.2	111.4	97.4	84.9	75.1	68.9	66.0	64.9	66.0	68.4	74.2
52.5°	111.9	96.7	83.6	71.5	61.1	55.7	52.6	51.9	52.6	55.5	60.2
55°	95.4	82.5	69.5	57.5	48.4	43.0	40.6	39.9	40.6	43.2	48.1
57.5°	79.1	68.0	56.6	45.7	37.9	33.2	31.0	30.1	31.6	33.4	39.2
60°	64.0	55.1	45.5	35.9	29.4	25.2	23.4	23.2	23.6	25.9	29.9
62.5°	50.2	42.8	35.2	27.4	22.1	20.3	18.1	17.8	18.3	19.6	22.7
65°	36.1	31.4	25.6	20.1	15.8	13.4	12.5	12.7	13.1	14.0	16.9
67.5°	25.2	21.8	17.8	14.0	10.9	9.8	8.9	8.7	8.9	10.5	12.0
70°	16.9	14.9	12.0	10.7	7.6	6.0	6.2	5.6	6.5	6.5	7.8
72.5°	11.1	9.8	8.0	6.2	5.4	4.2	4.2	4.0	4.5	4.7	5.8
75°	5.8	4.5	4.5	3.1	2.2	1.1	2.0	1.8	1.6	1.8	2.2
77.5°	4.0	3.3	3.1	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°	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2
2.5°	415.9	416.1	416.1	415.9	415.9	415.5	416.3	415.7	415.9	416.8	416.1
5°	416.3	416.6	416.6	416.3	416.3	416.3	416.6	416.6	416.3	416.1	416.6
7.5°	417.2	417.0	417.0	416.6	416.6	416.1	416.6	415.9	416.3	415.9	416.6
10°	416.1	416.3	416.1	415.9	415.9	415.7	415.7	415.0	415.2	414.6	415.0
12.5°	415.5	415.2	415.2	414.8	414.3	413.9	413.7	413.0	413.0	411.4	412.1
15°	413.7	413.9	413.2	412.3	411.9	410.8	410.3	409.4	408.6	407.4	407.7
17.5°	412.1	411.4	410.6	409.7	407.9	407.0	406.1	404.8	404.3	403.0	402.5
20°	407.4	407.0	405.9	404.3	403.2	401.2	400.3	399.0	397.9	396.5	395.8
22.5°	401.4	401.0	399.6	398.1	396.3	395.4	394.5	392.1	390.9	389.6	389.4
25°	393.8	393.2	391.8	390.1	389.2	386.7	385.8	384.0	383.6	382.2	382.0
27.5°	382.2	381.4	379.8	377.6	376.0	374.4	373.6	372.2	371.8	370.4	370.2
30°	364.9	363.7	360.6	359.7	357.1	355.5	355.5	353.7	353.9	353.1	353.1
32.5°	337.5	335.7	333.2	331.4	329.6	328.8	328.8	328.1	328.5	328.5	329.0
35°	301.1	298.7	297.3	296.2	296.2	297.1	299.8	300.5	301.8	302.9	303.8
37.5°	254.5	254.3	255.9	257.2	260.6	264.3	269.0	273.0	276.8	279.5	282.2
40°	204.2	209.7	214.2	220.4	225.6	232.9	241.4	248.3	254.8	259.4	264.3
42.5°	159.4	166.5	175.9	185.0	194.1	204.2	215.3	224.9	233.4	239.8	245.0
45°	124.1	134.0	145.3	156.9	168.7	181.2	192.8	202.6	211.5	218.2	223.3
47.5°	100.1	110.8	123.7	136.4	149.8	162.9	175.9	184.3	191.7	197.0	201.7
50°	82.7	94.1	107.7	122.1	135.5	148.7	159.8	168.1	174.1	178.8	181.7
52.5°	69.1	81.1	95.6	110.1	123.5	135.5	145.5	151.8	156.7	160.0	162.7
55°	57.1	68.7	82.2	95.8	109.0	120.4	128.6	133.3	137.1	139.1	140.6
57.5°	46.6	57.3	69.8	82.2	93.6	103.0	109.4	114.1	115.9	117.5	117.2
60°	36.6	46.6	58.0	68.7	78.5	86.0	90.7	93.4	94.7	95.4	94.9
62.5°	28.8	37.9	46.6	55.9	63.1	69.5	74.0	74.0	74.7	74.9	75.6
65°	21.4	28.3	35.9	42.8	48.6	52.8	55.3	55.9	56.8	56.6	56.2
67.5°	15.8	21.0	26.5	31.6	35.7	38.3	40.1	41.7	41.5	41.0	40.8
70°	10.9	14.3	19.2	22.3	25.2	27.9	28.3	28.5	28.8	29.0	28.5
72.5°	7.6	10.0	12.7	15.4	17.2	18.3	19.4	19.6	19.6	19.6	19.4
75°	3.8	5.1	7.6	8.7	10.3	10.7	11.6	11.6	12.3	11.4	11.1
77.5°	3.3	4.0	5.4	6.2	6.9	7.6	7.8	8.5	8.2	7.8	8.0
80°	2.0	2.5	3.3	3.8	4.7	4.9	5.1	5.4	5.1	5.4	5.4
82.5°	1.6	1.8	2.2	2.2	2.9	2.9	3.1	3.1	3.3	3.3	3.3
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°	415.2	415.2	415.2	415.2
2.5°	415.9	416.3	415.7	415.5
5°	416.6	416.6	416.1	416.1
7.5°	416.6	416.6	415.9	415.5
10°	414.8	414.8	414.1	413.7
12.5°	411.4	411.4	411.2	410.6
15°	407.2	407.2	406.3	405.7
17.5°	401.4	401.9	400.8	400.8
20°	395.2	395.0	394.1	393.6
22.5°	388.7	388.3	388.0	386.7
25°	381.8	381.4	380.7	380.0
27.5°	370.0	369.8	369.1	368.2
30°	351.9	351.7	350.8	350.8
32.5°	328.5	328.3	327.4	327.6
35°	304.2	305.1	304.7	303.8
37.5°	284.0	284.6	285.1	284.6
40°	267.0	269.0	269.2	269.7
42.5°	249.0	251.6	252.5	253.0
45°	227.3	229.8	231.8	231.4
47.5°	205.3	207.1	208.8	207.5
50°	184.1	185.2	185.9	185.9
52.5°	164.0	164.0	163.8	164.0
55°	141.1	141.1	140.2	140.6
57.5°	117.0	117.5	116.8	115.7
60°	94.7	93.6	93.2	92.5
62.5°	73.8	73.8	72.2	74.2
65°	55.3	54.6	53.9	53.7
67.5°	40.1	39.9	39.2	39.0
70°	28.3	27.4	27.2	26.7
72.5°	18.9	18.9	18.5	18.5
75°	11.6	10.5	10.3	10.5
77.5°	8.0	7.8	7.8	7.6
80°	5.4	5.1	5.6	4.9
82.5°	3.3	3.6	3.3	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)