

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: P244218

Luminaire Tested: **LSR8B10D010 EC8B10927 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10927 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 938.2 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

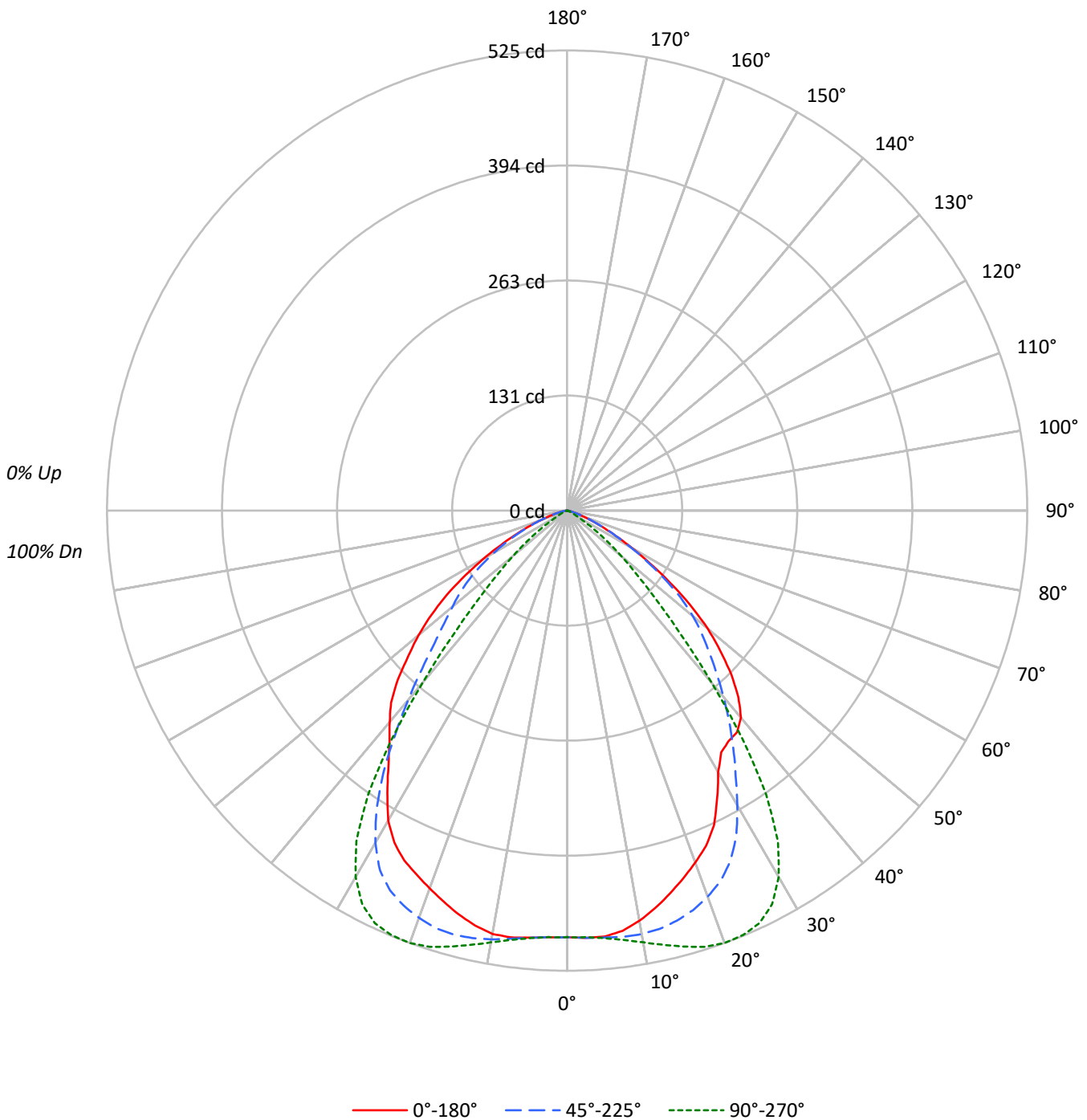
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15008	15008	15008
5°	15099	15155	15137
10°	14876	15662	15355
15°	14442	16438	15234
20°	14022	17225	15049
25°	13484	17669	14977
30°	12270	17184	14535
35°	12088	14892	13375
40°	12418	10325	12676
45°	11556	6240	11923
50°	10026	3852	10621
55°	7693	2016	9010
60°	5242	814	6809
65°	3262	416	4699
70°	1776	252	2858
75°	929	119	1692
80°	426	142	923
85°	283	71	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	5.0
10°-20°	138.7	14.8
20°-30°	211.5	22.5
30°-40°	220.7	23.5
40°-50°	165.8	17.7
50°-60°	102.0	10.9
60°-70°	41.5	4.4
70°-80°	9.8	1.0
80°-90°	1.3	0.1
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°	397.0	42.3
0°-40°	617.8	65.8
0°-60°	885.6	94.4
0°-90°	938.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	487	487	487	487	487	
5°	488	489	490	489	489	46
15°	452	484	515	501	477	127
25°	396	441	519	478	440	180
35°	321	330	396	366	355	203
45°	265	229	143	214	273	202
55°	143	136	38	136	168	129
65°	45	45	6	61	64	47
75°	8	8	1	14	14	9
85°	1	1	0	2	2	1
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°	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7
2.5°	488.0	487.2	488.0	488.0	488.2	487.8	488.0	488.2	487.8	487.8	487.8
5°	487.8	487.2	487.8	487.5	488.0	488.0	488.6	488.6	489.0	489.0	489.8
7.5°	483.6	482.6	483.6	484.4	484.9	486.0	487.2	488.2	489.3	490.4	491.6
10°	475.1	475.1	475.9	477.4	479.0	480.8	483.1	485.7	488.2	490.6	493.0
12.5°	464.5	463.7	465.3	467.3	469.7	472.5	476.1	480.0	484.2	488.8	492.4
15°	452.4	451.6	453.4	455.5	458.3	462.5	466.9	472.0	477.9	484.2	490.0
17.5°	440.0	439.8	441.6	444.4	446.7	451.1	456.8	462.9	469.7	477.9	485.7
20°	427.3	427.0	428.8	431.2	434.2	438.4	444.2	451.4	459.3	468.7	477.7
22.5°	414.1	414.4	415.9	418.5	421.1	425.5	431.4	438.6	447.4	457.5	467.7
25°	396.3	395.0	397.1	399.7	404.1	407.7	413.3	421.1	430.2	440.8	452.6
27.5°	370.5	370.2	372.0	374.4	378.2	382.6	388.8	396.8	406.3	418.0	429.6
30°	344.6	345.2	345.9	348.3	350.9	355.3	361.5	368.1	377.2	388.3	400.7
32.5°	327.0	327.0	328.2	329.6	331.4	333.8	338.2	343.1	350.1	357.9	366.9
35°	321.1	320.1	321.1	321.4	321.6	322.2	323.0	324.4	326.8	330.2	333.6
37.5°	318.6	317.8	317.8	316.7	315.4	313.9	311.8	309.5	306.9	303.5	300.9
40°	308.5	307.9	307.5	306.4	303.5	300.5	297.1	291.7	285.8	277.4	269.2
42.5°	289.1	288.6	288.3	286.2	283.6	280.0	276.2	270.4	263.0	252.4	240.5
45°	265.0	264.0	263.2	261.4	259.7	256.5	252.9	247.7	240.3	229.4	215.2
47.5°	237.2	236.7	236.4	235.6	233.8	232.0	229.7	225.6	218.8	208.5	193.7
50°	209.0	208.0	208.5	208.2	207.4	206.2	204.6	201.8	196.6	187.3	173.9
52.5°	176.7	176.7	176.4	177.2	177.5	177.2	177.5	174.4	170.0	163.0	151.6
55°	143.1	143.1	143.9	144.9	145.9	146.2	145.9	144.7	141.5	135.9	125.8
57.5°	111.6	111.0	112.6	114.2	115.2	116.2	115.4	114.4	112.6	108.0	100.2
60°	85.0	85.0	86.1	87.1	88.1	89.1	88.9	88.6	87.1	83.9	77.7
62.5°	62.6	62.8	62.8	63.6	64.6	65.6	66.4	65.6	64.8	62.8	58.6
65°	44.7	44.4	44.7	45.4	46.2	47.2	47.8	47.6	46.8	45.2	42.1
67.5°	29.9	29.7	30.7	31.0	31.5	32.5	32.3	32.5	32.3	31.0	28.5
70°	19.7	19.1	19.7	19.3	20.1	20.4	20.9	21.2	20.9	20.1	19.3
72.5°	12.2	11.9	12.2	12.4	12.7	12.9	13.4	13.4	13.2	12.7	11.6
75°	7.8	7.0	7.2	6.8	7.2	7.2	7.8	8.0	7.8	7.8	7.2
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.0	5.2	4.6	4.4
80°	2.4	2.4	2.6	2.6	2.6	2.8	2.6	2.6	2.6	2.8	2.0
82.5°	1.8	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.8	1.0	0.8	0.6	0.8	0.8	1.0	0.8	0.8	0.8	1.0
87.5°	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.6	0.0
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°	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7
2.5°	488.0	487.5	487.5	487.2	487.8	487.2	487.5	487.2	487.2	487.8	487.2
5°	489.8	490.0	489.6	489.3	490.0	490.0	490.0	489.6	489.6	489.8	489.6
7.5°	492.4	493.0	493.2	493.4	494.0	494.2	494.2	494.0	493.8	494.4	493.4
10°	495.2	496.0	497.6	498.4	499.6	499.6	500.2	500.2	499.6	500.2	500.0
12.5°	494.2	498.8	501.4	503.2	505.1	506.6	507.2	507.4	507.2	508.2	507.2
15°	496.0	500.0	504.0	507.2	510.5	512.3	512.8	514.9	515.4	515.7	514.1
17.5°	493.2	500.2	504.6	509.2	514.1	517.5	520.5	521.9	522.1	522.7	520.5
20°	486.7	494.4	501.2	507.9	513.6	518.7	521.3	524.9	523.9	526.1	523.1
22.5°	477.9	486.7	495.2	504.0	510.0	516.2	521.7	524.1	525.5	525.5	522.3
25°	464.0	474.3	483.6	492.6	501.8	509.2	515.4	519.3	520.1	519.8	516.2
27.5°	442.4	453.4	464.3	474.6	485.7	494.4	501.8	506.4	507.7	507.7	503.8
30°	412.3	424.2	434.8	447.2	458.6	468.3	478.5	482.6	484.9	484.9	480.5
32.5°	376.7	386.8	396.6	408.7	421.1	432.2	441.8	447.4	450.3	450.0	446.2
35°	338.0	342.8	350.3	359.3	370.5	380.8	390.2	395.6	400.4	400.2	396.6
37.5°	299.1	297.9	298.7	302.1	309.0	316.2	323.4	328.6	332.8	334.6	333.8
40°	261.2	254.5	248.1	245.7	246.3	248.7	252.7	256.5	261.2	263.5	264.6
42.5°	227.1	215.8	204.3	195.9	190.9	189.3	191.1	192.5	195.3	198.7	202.0
45°	199.7	184.5	169.4	156.3	148.0	143.1	142.1	143.1	144.7	148.0	152.4
47.5°	177.2	159.4	142.6	127.9	115.8	109.2	107.4	107.0	108.6	111.6	117.6
50°	157.4	139.5	120.9	103.8	91.2	83.9	81.3	80.3	82.1	84.5	89.9
52.5°	135.7	118.0	99.0	82.5	69.2	61.8	59.0	57.4	58.4	61.5	66.9
55°	112.2	95.9	78.5	61.5	48.8	41.8	38.5	37.5	38.5	41.8	47.2
57.5°	88.6	74.9	60.4	44.4	33.1	26.1	22.7	21.7	24.5	25.9	31.5
60°	69.2	58.2	45.7	32.5	22.7	17.3	14.0	13.2	14.5	16.8	21.5
62.5°	52.0	45.0	35.1	23.3	16.8	11.1	9.3	8.5	9.3	11.1	14.7
65°	37.7	32.3	24.5	17.1	11.4	8.2	6.2	5.7	6.4	7.8	10.8
67.5°	25.9	21.7	17.1	11.9	7.8	5.2	4.4	4.4	4.6	5.7	8.0
70°	16.8	14.2	10.8	7.8	5.2	3.8	3.4	2.8	3.4	4.2	5.4
72.5°	10.6	9.0	7.0	5.4	3.8	2.8	2.4	2.0	2.6	3.2	4.2
75°	6.4	5.0	3.6	2.8	2.0	2.0	2.0	1.0	1.2	2.0	2.6
77.5°	3.8	3.4	2.8	2.4	1.8	1.0	1.0	1.0	1.2	1.6	2.4
80°	2.0	1.8	1.2	1.2	1.0	0.8	1.0	0.8	0.6	1.2	1.6
82.5°	1.2	1.0	1.0	1.0	1.2	0.6	0.8	0.6	0.8	1.0	0.8
85°	0.8	0.8	0.8	0.6	1.2	0.6	0.6	0.2	0.2	0.6	0.6
87.5°	0.0	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.2
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°	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7
2.5°	487.5	487.2	487.5	487.2	487.2	487.2	487.5	487.5	487.2	487.2	487.8
5°	489.6	489.6	489.6	489.3	489.0	489.0	489.6	489.6	488.8	489.6	489.6
7.5°	494.0	493.2	494.0	493.0	492.4	492.6	493.0	492.4	491.8	492.2	492.2
10°	499.6	498.8	498.8	498.2	497.4	496.8	496.4	495.0	493.8	493.4	492.4
12.5°	506.4	505.1	504.3	502.8	501.4	499.6	498.2	496.0	493.4	491.6	489.8
15°	513.1	511.0	509.2	506.6	503.8	500.7	497.4	494.0	489.8	486.2	483.1
17.5°	518.5	515.7	512.3	508.2	504.0	499.4	494.4	489.6	483.6	479.0	475.3
20°	520.3	516.2	511.8	506.4	501.0	494.4	488.2	481.8	475.1	470.2	466.1
22.5°	517.9	513.1	507.7	502.0	494.8	487.8	480.5	473.1	467.1	460.4	456.5
25°	511.5	505.6	499.6	493.0	486.0	478.2	470.5	462.7	455.5	451.8	447.0
27.5°	498.4	491.8	485.4	478.5	470.5	462.7	454.7	447.2	441.0	436.0	433.2
30°	475.1	467.7	460.1	452.6	445.6	437.6	430.2	423.9	417.7	413.9	411.1
32.5°	439.4	432.8	425.2	418.0	411.5	404.9	398.6	393.2	388.8	386.2	384.2
35°	391.4	384.6	379.0	373.8	368.4	365.5	361.7	358.5	356.7	355.7	355.5
37.5°	331.0	327.0	325.2	324.2	323.2	322.4	323.0	324.2	325.2	327.0	329.2
40°	266.4	269.7	270.8	274.4	277.8	282.2	287.0	292.7	297.3	303.3	307.5
42.5°	207.4	213.6	220.8	228.6	236.9	244.9	254.7	263.8	272.0	279.6	286.0
45°	159.4	169.0	179.8	190.9	202.0	213.6	225.6	236.7	246.5	254.5	261.2
47.5°	124.3	134.9	148.8	162.5	176.0	189.7	202.8	214.4	222.8	230.4	236.4
50°	98.4	110.6	125.8	141.5	156.3	170.8	184.7	195.5	203.8	210.0	214.4
52.5°	76.2	90.7	106.2	122.7	138.5	154.2	167.2	177.2	183.9	189.3	192.7
55°	56.8	71.1	87.6	104.6	120.6	135.9	148.0	156.8	162.8	165.8	167.6
57.5°	41.1	54.0	70.5	87.6	102.0	116.6	126.3	134.3	137.7	139.5	140.3
60°	29.9	41.8	56.6	71.3	85.0	96.6	105.2	110.6	113.2	114.2	114.0
62.5°	21.9	32.3	45.0	57.4	68.5	78.1	84.7	88.3	89.7	90.1	89.4
65°	16.8	24.8	35.7	45.2	53.8	60.8	65.6	68.0	68.7	68.5	68.0
67.5°	12.4	18.6	26.7	33.9	40.1	45.4	48.0	50.2	50.6	49.8	49.1
70°	8.8	13.7	19.3	24.3	28.9	32.1	34.9	35.1	35.1	34.9	34.3
72.5°	6.2	9.6	13.2	16.5	19.3	21.7	22.7	23.5	23.3	23.0	22.5
75°	4.2	6.0	9.6	10.4	12.9	13.7	14.7	14.7	15.0	14.2	14.2
77.5°	2.6	4.2	5.7	6.8	7.8	8.8	9.3	9.3	9.6	9.3	9.3
80°	1.6	2.6	3.2	4.6	4.6	5.4	5.7	6.0	5.4	6.2	5.4
82.5°	1.0	1.6	2.4	2.4	2.8	3.4	3.4	3.6	3.6	3.4	3.4
85°	0.8	1.0	1.2	1.6	1.6	1.8	1.6	1.6	1.8	2.0	1.8
87.5°	0.2	0.6	0.2	0.6	0.6	1.0	0.8	0.8	0.8	1.0	1.0
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°	486.7	486.7	486.7	486.7
2.5°	487.2	487.5	487.2	487.2
5°	489.6	489.3	489.6	489.0
7.5°	491.4	491.4	491.2	491.2
10°	491.4	490.4	490.4	490.4
12.5°	487.5	486.2	485.4	484.9
15°	480.8	478.5	477.4	477.2
17.5°	472.0	469.9	468.7	467.9
20°	461.9	459.9	458.3	458.6
22.5°	453.2	450.8	449.8	449.3
25°	444.4	441.6	440.8	440.2
27.5°	430.2	428.6	427.8	427.0
30°	408.5	407.7	406.3	408.2
32.5°	383.4	382.0	381.0	381.8
35°	355.7	354.9	355.7	355.3
37.5°	330.4	331.2	332.2	332.8
40°	310.5	313.4	314.4	314.9
42.5°	290.7	294.0	296.1	297.3
45°	266.1	269.4	271.8	273.4
47.5°	240.8	243.7	245.9	245.7
50°	217.8	219.4	220.4	221.4
52.5°	194.5	194.5	194.8	194.8
55°	168.2	167.6	167.4	167.6
57.5°	139.3	138.7	138.5	137.7
60°	113.0	111.4	110.4	110.4
62.5°	88.3	86.5	85.7	85.5
65°	66.4	66.1	64.6	64.4
67.5°	48.0	47.0	46.0	46.2
70°	33.9	32.3	32.3	31.7
72.5°	21.9	21.2	20.9	20.9
75°	13.7	13.7	13.2	14.2
77.5°	9.0	9.0	8.8	9.0
80°	5.4	5.4	5.4	5.2
82.5°	3.4	3.6	3.4	3.4
85°	1.8	2.0	1.6	2.4
87.5°	1.0	1.2	1.0	1.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)