

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: P246156

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246156
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 EC8B10950 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 943.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

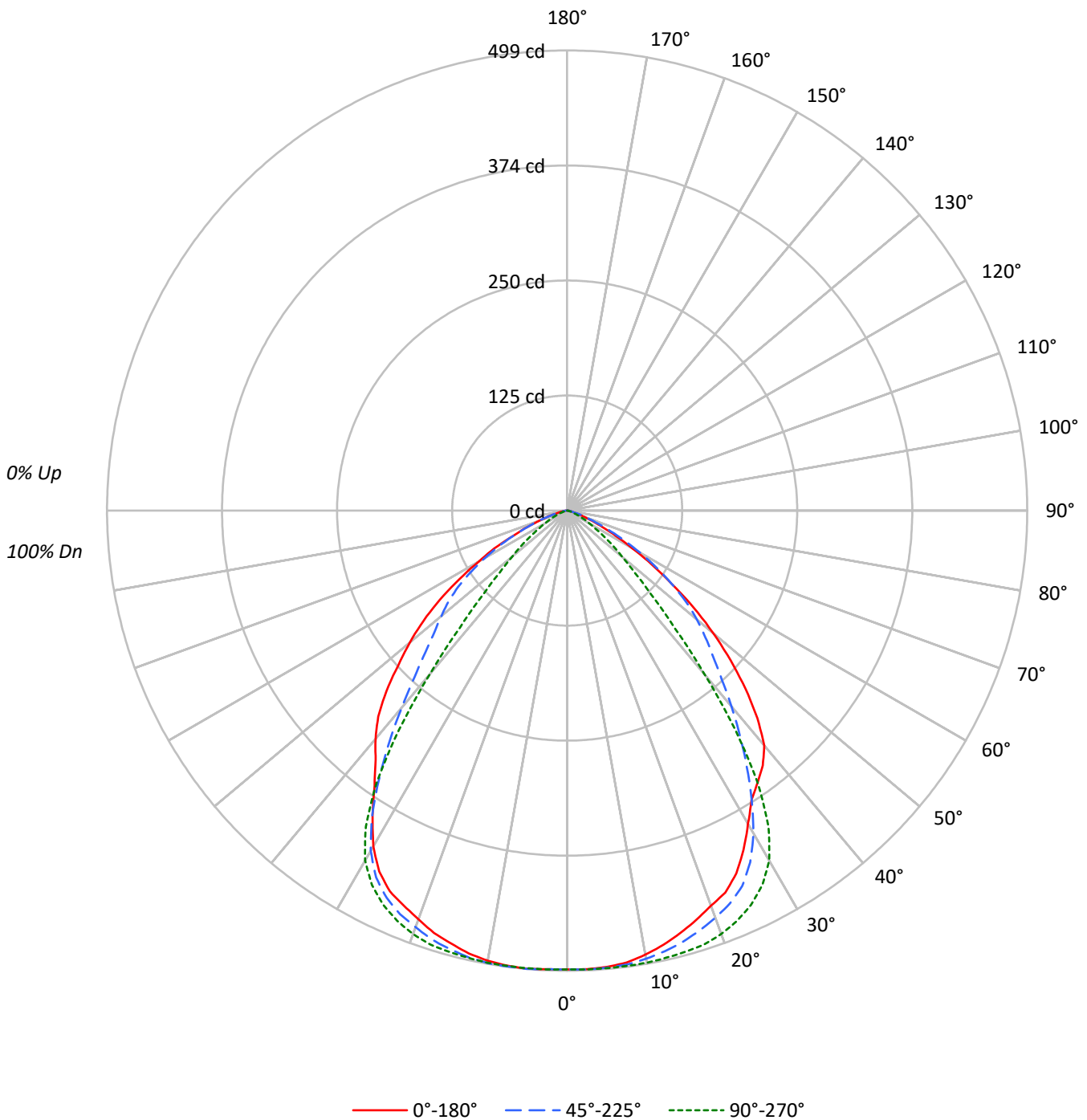
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15341	15341	15341
5°	15375	15418	15434
10°	15312	15587	15521
15°	15142	15815	15518
20°	14961	16037	15476
25°	14766	16056	15495
30°	13969	15606	14969
35°	13552	13563	13702
40°	13384	9331	13010
45°	11927	5604	12088
50°	9916	3727	10684
55°	7435	2570	9059
60°	5039	1714	6833
65°	3043	1109	4699
70°	1686	604	2885
75°	763	250	1501
80°	657	284	1048
85°	743	389	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	5.0
10°-20°	137.9	14.6
20°-30°	209.3	22.2
30°-40°	219.8	23.3
40°-50°	164.8	17.5
50°-60°	105.8	11.2
60°-70°	45.2	4.8
70°-80°	10.7	1.1
80°-90°	2.0	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°	394.7	41.9
0°-40°	614.5	65.2
0°-60°	885.1	93.9
0°-90°	943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	498	498	498	498	498	
5°	497	498	498	499	499	47
15°	474	484	495	492	486	134
25°	434	449	472	463	455	198
35°	360	340	360	356	364	226
45°	274	224	128	217	277	209
55°	138	138	48	144	168	125
65°	42	49	15	63	64	44
75°	6	8	2	13	13	9
85°	2	1	1	2	3	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°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	497.8	498.3	498.1	498.1	497.8	498.1	498.1	498.6	498.6	498.1	497.8
5°	496.7	497.3	497.3	496.7	496.7	498.1	497.3	497.8	497.8	497.5	497.5
7.5°	494.3	494.3	495.4	494.6	494.6	495.4	495.1	495.7	496.2	496.5	496.5
10°	489.0	489.5	489.8	489.8	490.1	490.9	491.4	492.5	493.0	493.5	493.8
12.5°	482.3	483.1	483.4	483.1	483.9	485.0	486.3	487.7	488.5	489.5	490.3
15°	474.3	474.3	474.8	475.6	476.2	477.8	479.1	480.7	482.9	484.2	485.5
17.5°	465.5	466.0	466.8	466.8	467.9	470.6	471.4	473.8	476.2	477.5	480.2
20°	455.9	456.4	457.2	457.8	459.1	461.2	462.8	465.0	467.6	470.0	472.7
22.5°	448.4	447.3	447.9	448.4	449.7	451.6	453.5	456.1	458.8	461.2	463.9
25°	434.0	434.3	435.1	435.6	437.2	438.8	440.9	444.1	446.5	449.2	452.1
27.5°	414.5	414.8	416.1	416.1	417.4	420.1	421.4	424.1	427.3	430.0	433.5
30°	392.3	392.9	392.9	393.9	394.7	396.1	397.4	400.1	401.7	404.1	408.9
32.5°	372.0	372.6	372.3	372.0	371.2	371.0	370.7	371.2	371.8	372.6	374.4
35°	360.0	358.7	357.6	355.7	353.6	350.9	348.5	345.3	342.4	340.0	337.3
37.5°	348.5	348.3	346.7	344.0	339.7	334.9	329.3	322.4	315.4	307.9	300.7
40°	332.5	331.7	330.4	326.6	321.8	315.9	308.5	299.9	288.7	277.2	265.5
42.5°	305.3	305.5	303.9	301.0	296.4	290.8	283.1	273.7	261.7	248.1	232.9
45°	273.5	273.5	272.9	270.5	267.3	262.8	256.9	249.2	237.4	223.5	207.2
47.5°	240.4	240.6	239.8	239.3	238.0	235.0	230.7	224.9	216.6	203.2	186.9
50°	206.7	206.7	208.0	207.8	207.8	206.7	204.8	201.4	194.2	183.5	168.3
52.5°	173.1	173.6	174.4	175.5	176.8	178.9	176.8	175.2	170.7	162.4	149.3
55°	138.3	138.9	140.2	142.1	143.7	145.8	146.4	146.4	143.9	138.3	128.5
57.5°	108.7	107.9	109.0	110.6	112.7	114.8	116.4	118.3	118.0	114.3	106.3
60°	81.7	82.0	82.8	84.4	86.0	87.9	90.0	91.6	92.4	90.5	85.5
62.5°	59.6	59.6	60.6	62.2	63.0	65.7	67.0	67.8	68.6	68.4	65.2
65°	41.7	42.2	42.7	43.5	44.3	45.9	46.7	48.3	48.9	49.1	46.7
67.5°	29.4	28.6	29.1	29.6	30.4	31.5	33.1	33.1	33.9	33.9	32.3
70°	18.7	18.7	19.0	19.8	20.3	20.6	21.1	21.6	22.4	22.2	22.2
72.5°	12.6	12.3	12.6	12.8	13.1	13.9	13.9	14.2	14.7	15.0	13.9
75°	6.4	6.7	7.2	6.9	7.7	7.2	7.5	8.3	8.0	7.5	7.5
77.5°	5.3	5.3	5.3	5.1	5.6	5.6	5.3	5.9	5.6	5.6	5.3
80°	3.7	4.0	3.7	3.5	3.7	3.5	3.5	3.5	3.5	3.5	3.2
82.5°	2.9	2.4	2.7	2.4	2.7	2.7	2.4	2.1	2.1	2.4	2.1
85°	2.1	1.6	1.9	1.9	1.6	1.6	1.6	1.6	1.6	1.3	1.3
87.5°	1.3	0.8	0.8	0.8	1.1	1.1	1.1	0.8	1.1	1.1	0.5
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°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	498.3	498.1	498.6	498.3	498.3	498.1	498.3	498.1	498.6	497.5	497.8
5°	498.3	497.8	498.1	498.3	498.6	498.1	498.1	498.1	498.6	498.1	498.3
7.5°	497.3	497.0	497.8	498.3	498.1	497.8	498.3	498.1	498.6	498.3	498.9
10°	495.1	495.4	495.9	496.7	497.0	497.3	497.8	497.8	498.6	497.5	498.1
12.5°	491.9	493.0	494.3	494.9	495.9	495.9	496.5	496.7	497.3	497.0	497.8
15°	487.9	489.3	490.9	492.2	493.5	494.3	495.1	495.4	496.2	495.4	495.7
17.5°	483.1	484.7	487.1	488.7	490.9	491.7	492.7	493.3	494.1	493.5	493.8
20°	476.4	478.3	481.0	483.4	484.7	486.6	487.9	488.7	489.3	488.7	489.0
22.5°	467.1	469.8	473.2	475.1	477.8	479.4	479.7	481.5	482.9	481.5	482.1
25°	456.1	458.8	461.5	465.5	467.9	469.8	471.6	471.9	473.2	473.0	472.7
27.5°	438.0	441.5	446.0	449.2	452.4	455.4	457.5	458.0	459.4	458.8	459.1
30°	413.1	416.9	421.2	426.2	430.8	433.7	436.4	438.3	439.6	438.8	438.5
32.5°	377.9	381.6	386.2	391.3	396.6	400.9	404.1	406.5	408.1	407.5	406.2
35°	337.6	338.6	341.6	345.6	350.1	354.7	357.6	360.3	362.1	362.7	362.7
37.5°	296.2	292.7	290.6	290.6	293.2	295.1	297.8	299.4	302.3	303.4	304.2
40°	256.1	248.1	240.6	235.0	231.3	231.0	231.0	231.8	234.5	238.0	241.2
42.5°	220.3	207.5	196.0	185.6	178.1	173.9	172.0	172.3	174.4	177.6	182.9
45°	191.8	175.7	161.3	148.8	138.6	131.9	128.7	128.5	130.1	133.8	139.7
47.5°	169.6	152.5	136.2	121.8	110.8	103.6	99.9	98.8	99.9	103.4	110.3
50°	151.2	133.5	116.7	101.8	90.0	82.5	79.1	77.7	79.1	82.0	88.9
52.5°	134.1	115.9	100.2	85.7	73.2	66.8	63.0	62.2	63.0	66.5	72.1
55°	114.3	98.8	83.3	68.9	58.0	51.5	48.6	47.8	48.6	51.8	57.7
57.5°	94.8	81.5	67.8	54.7	45.4	39.8	37.1	36.1	37.9	40.1	47.0
60°	76.6	66.0	54.5	43.0	35.3	30.2	28.0	27.8	28.3	31.0	35.8
62.5°	60.1	51.3	42.2	32.8	26.4	24.3	21.6	21.4	21.9	23.5	27.2
65°	43.3	37.7	30.7	24.0	19.0	16.0	15.0	15.2	15.8	16.8	20.3
67.5°	30.2	26.2	21.4	16.8	13.1	11.7	10.7	10.4	10.7	12.6	14.4
70°	20.3	17.9	14.4	12.8	9.1	7.2	7.5	6.7	7.7	7.7	9.3
72.5°	13.4	11.7	9.6	7.5	6.4	5.1	5.1	4.8	5.3	5.6	6.9
75°	6.9	5.3	5.3	3.7	2.7	1.3	2.4	2.1	1.9	2.1	2.7
77.5°	4.8	4.0	3.7	2.9	2.7	2.1	2.1	2.1	2.1	2.4	2.7
80°	2.9	2.9	2.1	1.9	1.6	1.3	1.6	1.6	1.6	1.6	1.9
82.5°	1.9	1.6	1.6	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.6
85°	1.6	1.1	1.1	0.8	1.1	1.9	0.8	1.1	1.1	1.1	0.8
87.5°	0.5	0.8	0.8	0.8	0.5	0.3	0.5	0.8	0.8	1.3	1.1
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°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	498.3	498.6	498.6	498.3	498.3	497.8	498.9	498.1	498.3	499.4	498.6
5°	498.9	499.1	499.1	498.9	498.9	498.9	499.1	499.1	498.9	498.6	499.1
7.5°	500.0	499.7	499.7	499.1	499.1	498.6	499.1	498.3	498.9	498.3	499.1
10°	498.6	498.9	498.6	498.3	498.3	498.1	498.1	497.3	497.5	496.7	497.3
12.5°	497.8	497.5	497.5	497.0	496.5	495.9	495.7	494.9	494.9	493.0	493.8
15°	495.7	495.9	495.1	494.1	493.5	492.2	491.7	490.6	489.5	488.2	488.5
17.5°	493.8	493.0	491.9	490.9	488.7	487.7	486.6	485.0	484.5	482.9	482.3
20°	488.2	487.7	486.3	484.5	483.1	480.7	479.7	478.1	476.7	475.1	474.3
22.5°	481.0	480.5	478.8	477.0	474.8	473.8	472.7	469.8	468.4	466.8	466.6
25°	471.9	471.1	469.5	467.4	466.3	463.4	462.3	460.2	459.6	458.0	457.8
27.5°	458.0	457.0	455.1	452.4	450.5	448.7	447.6	446.0	445.5	443.9	443.6
30°	437.2	435.9	432.1	431.0	427.8	426.0	426.0	423.8	424.1	423.0	423.0
32.5°	404.3	402.2	399.3	397.1	395.0	393.9	393.9	393.1	393.7	393.7	394.2
35°	360.8	357.9	356.3	354.9	354.9	356.0	359.2	360.0	361.6	362.9	364.0
37.5°	305.0	304.7	306.6	308.2	312.2	316.7	322.4	327.2	331.7	334.9	338.1
40°	244.6	251.3	256.7	264.1	270.3	279.1	289.2	297.5	305.3	310.9	316.7
42.5°	191.0	199.5	210.7	221.7	232.6	244.6	258.0	269.5	279.6	287.4	293.5
45°	148.8	160.5	174.1	188.0	202.2	217.1	231.0	242.8	253.4	261.5	267.6
47.5°	119.9	132.7	148.2	163.4	179.5	195.2	210.7	220.9	229.7	236.1	241.7
50°	99.1	112.7	129.0	146.4	162.4	178.1	191.5	201.4	208.6	214.2	217.7
52.5°	82.8	97.2	114.6	131.9	148.0	162.4	174.4	181.9	187.7	191.8	195.0
55°	68.4	82.3	98.5	114.8	130.6	144.2	154.1	159.7	164.2	166.6	168.5
57.5°	55.8	68.6	83.6	98.5	112.2	123.4	131.1	136.7	138.9	140.7	140.5
60°	43.8	55.8	69.4	82.3	94.0	103.1	108.7	111.9	113.5	114.3	113.8
62.5°	34.5	45.4	55.8	67.0	75.6	83.3	88.7	88.7	89.5	89.7	90.5
65°	25.6	33.9	43.0	51.3	58.2	63.3	66.2	67.0	68.1	67.8	67.3
67.5°	19.0	25.1	31.8	37.9	42.7	45.9	48.1	49.9	49.7	49.1	48.9
70°	13.1	17.1	23.0	26.7	30.2	33.4	33.9	34.2	34.5	34.7	34.2
72.5°	9.1	12.0	15.2	18.4	20.6	21.9	23.2	23.5	23.5	23.5	23.2
75°	4.5	6.1	9.1	10.4	12.3	12.8	13.9	13.9	14.7	13.6	13.4
77.5°	4.0	4.8	6.4	7.5	8.3	9.1	9.3	10.1	9.9	9.3	9.6
80°	2.4	2.9	4.0	4.5	5.6	5.9	6.1	6.4	6.1	6.4	6.4
82.5°	1.9	2.1	2.7	2.7	3.5	3.5	3.7	3.7	4.0	4.0	4.0
85°	1.1	1.9	1.6	3.2	2.1	2.1	2.7	3.2	2.7	2.7	3.2
87.5°	1.1	1.1	0.8	1.1	1.1	1.1	1.3	1.6	1.6	1.9	1.6
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°	497.5	497.5	497.5	497.5
2.5°	498.3	498.9	498.1	497.8
5°	499.1	499.1	498.6	498.6
7.5°	499.1	499.1	498.3	497.8
10°	497.0	497.0	496.2	495.7
12.5°	493.0	493.0	492.7	491.9
15°	487.9	487.9	486.9	486.1
17.5°	481.0	481.5	480.2	480.2
20°	473.5	473.2	472.2	471.6
22.5°	465.8	465.2	465.0	463.4
25°	457.5	457.0	456.1	455.4
27.5°	443.3	443.1	442.3	441.2
30°	421.7	421.4	420.4	420.4
32.5°	393.7	393.4	392.3	392.6
35°	364.5	365.6	365.1	364.0
37.5°	340.2	341.0	341.6	341.0
40°	319.9	322.4	322.6	323.2
42.5°	298.3	301.5	302.6	303.1
45°	272.4	275.3	277.8	277.2
47.5°	246.0	248.1	250.2	248.6
50°	220.6	221.9	222.7	222.7
52.5°	196.6	196.6	196.3	196.6
55°	169.1	169.1	168.0	168.5
57.5°	140.2	140.7	139.9	138.6
60°	113.5	112.2	111.6	110.8
62.5°	88.4	88.4	86.5	88.9
65°	66.2	65.4	64.6	64.4
67.5°	48.1	47.8	47.0	46.7
70°	33.9	32.8	32.6	32.0
72.5°	22.7	22.7	22.2	22.2
75°	13.9	12.6	12.3	12.6
77.5°	9.6	9.3	9.3	9.1
80°	6.4	6.1	6.7	5.9
82.5°	4.0	4.3	4.0	4.3
85°	2.7	3.2	2.9	2.9
87.5°	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)