

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: P246222

Luminaire Tested: **LSR8B10D010 EC8B10940 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246222
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 EC8B10940 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1018.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

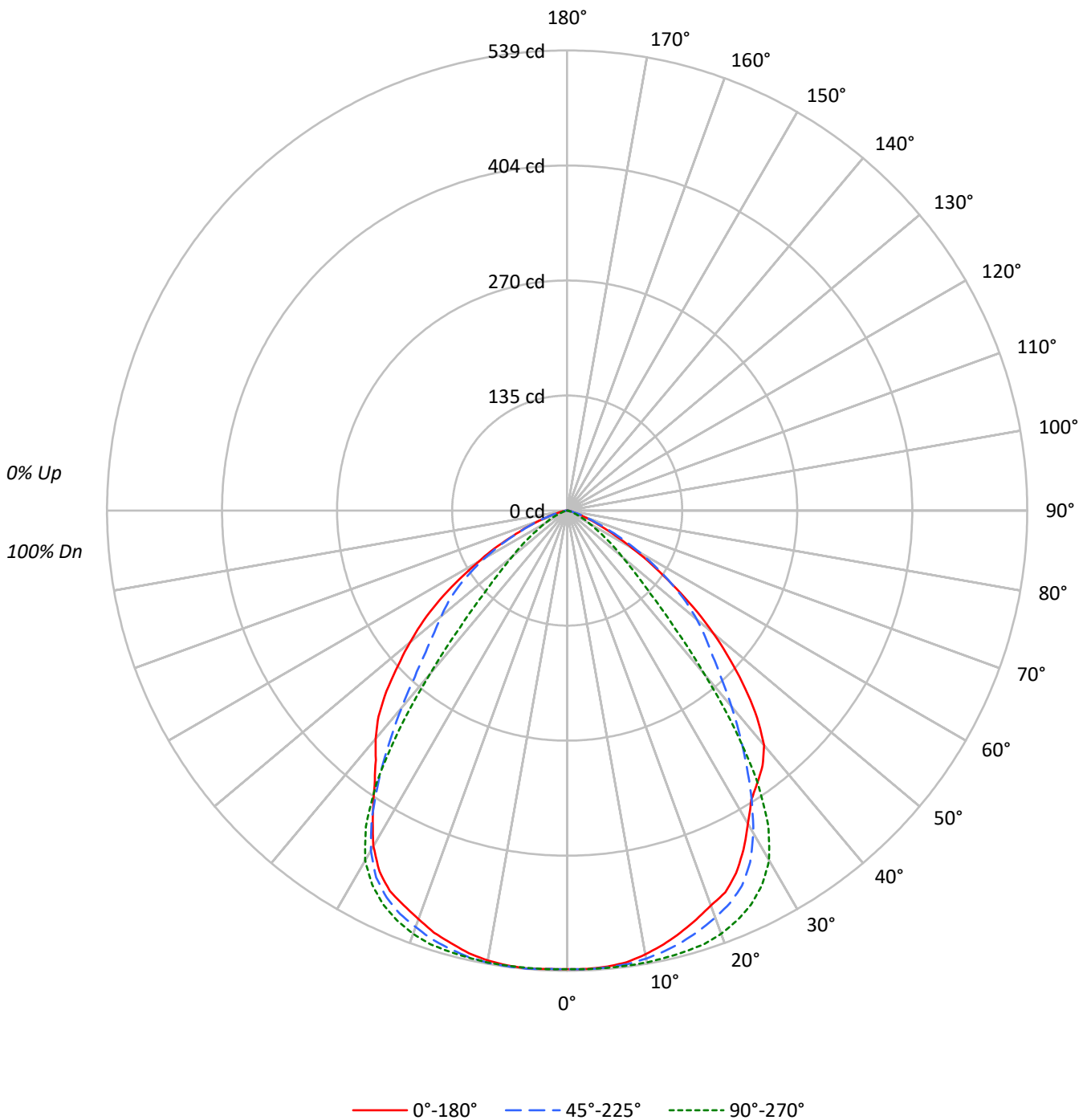
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16562	16562	16562
5°	16598	16644	16663
10°	16530	16827	16755
15°	16345	17073	16751
20°	16148	17313	16710
25°	15940	17332	16726
30°	15079	16846	16158
35°	14629	14640	14794
40°	14447	10072	14045
45°	12873	6049	13052
50°	10708	4025	11533
55°	8027	2774	9779
60°	5440	1850	7376
65°	3283	1197	5071
70°	1821	649	3120
75°	822	274	1620
80°	710	302	1119
85°	814	425	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	5.0
10°-20°	148.9	14.6
20°-30°	226.0	22.2
30°-40°	237.3	23.3
40°-50°	177.9	17.5
50°-60°	114.2	11.2
60°-70°	48.8	4.8
70°-80°	11.5	1.1
80°-90°	2.1	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°	426.1	41.9
0°-40°	663.4	65.2
0°-60°	955.5	93.9
0°-90°	1018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1018.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	537	537	537	537	537	
5°	536	537	538	539	538	51
15°	512	523	535	531	525	144
25°	468	485	509	500	492	214
35°	389	367	389	384	393	244
45°	295	241	139	234	299	226
55°	149	149	52	156	182	135
65°	45	53	16	68	70	48
75°	7	8	2	14	14	10
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°	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1
2.5°	537.4	538.0	537.7	537.7	537.4	537.7	537.7	538.3	538.3	537.7	537.4
5°	536.2	536.8	536.8	536.2	536.2	537.7	536.8	537.4	537.4	537.1	537.1
7.5°	533.7	533.7	534.8	533.9	533.9	534.8	534.5	535.1	535.7	536.0	536.0
10°	527.9	528.5	528.8	528.8	529.0	529.9	530.5	531.6	532.2	532.8	533.1
12.5°	520.7	521.5	521.8	521.5	522.4	523.6	525.0	526.5	527.3	528.5	529.3
15°	512.0	512.0	512.6	513.5	514.1	515.8	517.2	519.0	521.3	522.7	524.1
17.5°	502.5	503.1	504.0	504.0	505.1	508.0	508.9	511.5	514.1	515.5	518.4
20°	492.1	492.7	493.6	494.2	495.6	497.9	499.6	501.9	504.8	507.4	510.3
22.5°	484.1	482.9	483.5	484.1	485.5	487.5	489.5	492.4	495.3	497.9	500.8
25°	468.5	468.8	469.7	470.2	472.0	473.7	476.0	479.5	482.1	484.9	488.1
27.5°	447.5	447.7	449.2	449.2	450.6	453.5	454.9	457.8	461.3	464.2	467.9
30°	423.5	424.1	424.1	425.3	426.1	427.6	429.0	431.9	433.6	436.2	441.4
32.5°	401.6	402.2	401.9	401.6	400.7	400.5	400.2	400.7	401.3	402.2	404.2
35°	388.6	387.2	386.0	384.0	381.7	378.8	376.2	372.8	369.6	367.0	364.1
37.5°	376.2	376.0	374.2	371.3	366.7	361.5	355.5	348.0	340.5	332.4	324.6
40°	358.9	358.1	356.6	352.6	347.4	341.1	333.0	323.8	311.7	299.3	286.6
42.5°	329.5	329.8	328.1	324.9	320.0	314.0	305.6	295.5	282.5	267.8	251.4
45°	295.2	295.2	294.6	292.1	288.6	283.7	277.4	269.0	256.3	241.3	223.7
47.5°	259.5	259.8	258.9	258.3	256.9	253.7	249.1	242.8	233.8	219.4	201.8
50°	223.2	223.2	224.6	224.3	224.3	223.2	221.1	217.4	209.6	198.1	181.6
52.5°	186.8	187.4	188.3	189.4	190.9	193.2	190.9	189.1	184.2	175.3	161.2
55°	149.3	149.9	151.4	153.4	155.1	157.4	158.0	158.0	155.4	149.3	138.7
57.5°	117.3	116.5	117.6	119.4	121.7	124.0	125.7	127.7	127.4	123.4	114.7
60°	88.2	88.5	89.4	91.1	92.8	94.9	97.2	98.9	99.8	97.7	92.3
62.5°	64.3	64.3	65.4	67.2	68.0	70.9	72.4	73.2	74.1	73.8	70.3
65°	45.0	45.6	46.1	47.0	47.9	49.6	50.5	52.2	52.8	53.0	50.5
67.5°	31.7	30.8	31.4	32.0	32.9	34.0	35.8	35.8	36.6	36.6	34.9
70°	20.2	20.2	20.5	21.3	21.9	22.2	22.8	23.4	24.2	23.9	23.9
72.5°	13.6	13.3	13.6	13.8	14.1	15.0	15.0	15.3	15.9	16.1	15.0
75°	6.9	7.2	7.8	7.5	8.4	7.8	8.1	8.9	8.6	8.1	8.1
77.5°	5.8	5.8	5.8	5.5	6.1	6.1	5.8	6.3	6.1	6.1	5.8
80°	4.0	4.3	4.0	3.7	4.0	3.7	3.7	3.7	3.7	3.7	3.5
82.5°	3.2	2.6	2.9	2.6	2.9	2.9	2.6	2.3	2.3	2.6	2.3
85°	2.3	1.7	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.4	1.4
87.5°	1.4	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	0.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1
2.5°	538.0	537.7	538.3	538.0	538.0	537.7	538.0	537.7	538.3	537.1	537.4
5°	538.0	537.4	537.7	538.0	538.3	537.7	537.7	537.7	538.3	537.7	538.0
7.5°	536.8	536.5	537.4	538.0	537.7	537.4	538.0	537.7	538.3	538.0	538.6
10°	534.5	534.8	535.4	536.2	536.5	536.8	537.4	537.4	538.3	537.1	537.7
12.5°	531.1	532.2	533.7	534.2	535.4	535.4	536.0	536.2	536.8	536.5	537.4
15°	526.7	528.2	529.9	531.4	532.8	533.7	534.5	534.8	535.7	534.8	535.1
17.5°	521.5	523.3	525.9	527.6	529.9	530.8	531.9	532.5	533.4	532.8	533.1
20°	514.3	516.4	519.2	521.8	523.3	525.3	526.7	527.6	528.2	527.6	527.9
22.5°	504.3	507.1	510.9	512.9	515.8	517.5	517.8	519.8	521.3	519.8	520.4
25°	492.4	495.3	498.2	502.5	505.1	507.1	509.2	509.4	510.9	510.6	510.3
27.5°	472.8	476.6	481.5	484.9	488.4	491.6	493.9	494.4	495.9	495.3	495.6
30°	446.0	450.1	454.7	460.1	465.0	468.2	471.1	473.1	474.6	473.7	473.4
32.5°	408.0	412.0	416.9	422.4	428.1	432.7	436.2	438.8	440.5	440.0	438.5
35°	364.4	365.6	368.7	373.1	378.0	382.9	386.0	388.9	390.9	391.5	391.5
37.5°	319.7	316.0	313.7	313.7	316.6	318.6	321.5	323.2	326.4	327.5	328.4
40°	276.5	267.8	259.8	253.7	249.7	249.4	249.4	250.2	253.1	256.9	260.3
42.5°	237.9	224.0	211.6	200.4	192.3	187.7	185.7	186.0	188.3	191.7	197.5
45°	207.0	189.7	174.1	160.6	149.6	142.4	139.0	138.7	140.4	144.4	150.8
47.5°	183.1	164.6	147.0	131.5	119.6	111.9	107.8	106.7	107.8	111.6	119.1
50°	163.2	144.2	126.0	109.8	97.2	89.1	85.3	83.9	85.3	88.5	96.0
52.5°	144.7	125.1	108.1	92.5	79.0	72.1	68.0	67.2	68.0	71.8	77.8
55°	123.4	106.7	90.0	74.4	62.6	55.6	52.5	51.6	52.5	55.9	62.3
57.5°	102.4	87.9	73.2	59.1	49.0	43.0	40.1	38.9	40.9	43.2	50.7
60°	82.7	71.2	58.8	46.4	38.1	32.6	30.3	30.0	30.6	33.4	38.6
62.5°	64.9	55.4	45.6	35.5	28.5	26.2	23.4	23.1	23.6	25.4	29.4
65°	46.7	40.7	33.2	25.9	20.5	17.3	16.1	16.4	17.0	18.2	21.9
67.5°	32.6	28.3	23.1	18.2	14.1	12.7	11.5	11.2	11.5	13.6	15.6
70°	21.9	19.3	15.6	13.8	9.8	7.8	8.1	7.2	8.4	8.4	10.1
72.5°	14.4	12.7	10.4	8.1	6.9	5.5	5.5	5.2	5.8	6.1	7.5
75°	7.5	5.8	5.8	4.0	2.9	1.4	2.6	2.3	2.0	2.3	2.9
77.5°	5.2	4.3	4.0	3.2	2.9	2.3	2.3	2.3	2.3	2.6	2.9
80°	3.2	3.2	2.3	2.0	1.7	1.4	1.7	1.7	1.7	1.7	2.0
82.5°	2.0	1.7	1.7	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.7
85°	1.7	1.2	1.2	0.9	1.2	2.0	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.4	1.2
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°	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1	537.1
2.5°	538.0	538.3	538.3	538.0	538.0	537.4	538.6	537.7	538.0	539.1	538.3
5°	538.6	538.8	538.8	538.6	538.6	538.6	538.8	538.8	538.6	538.3	538.8
7.5°	539.7	539.4	539.4	538.8	538.8	538.3	538.8	538.0	538.6	538.0	538.8
10°	538.3	538.6	538.3	538.0	538.0	537.7	537.7	536.8	537.1	536.2	536.8
12.5°	537.4	537.1	537.1	536.5	536.0	535.4	535.1	534.2	534.2	532.2	533.1
15°	535.1	535.4	534.5	533.4	532.8	531.4	530.8	529.6	528.5	527.0	527.3
17.5°	533.1	532.2	531.1	529.9	527.6	526.5	525.3	523.6	523.0	521.3	520.7
20°	527.0	526.5	525.0	523.0	521.5	519.0	517.8	516.1	514.6	512.9	512.0
22.5°	519.2	518.7	516.9	514.9	512.6	511.5	510.3	507.1	505.7	504.0	503.7
25°	509.4	508.6	506.8	504.5	503.4	500.2	499.1	496.8	496.2	494.4	494.2
27.5°	494.4	493.3	491.3	488.4	486.4	484.4	483.2	481.5	480.9	479.2	478.9
30°	472.0	470.5	466.5	465.3	461.9	459.8	459.8	457.5	457.8	456.7	456.7
32.5°	436.5	434.2	431.0	428.7	426.4	425.3	425.3	424.4	425.0	425.0	425.5
35°	389.5	386.3	384.6	383.2	383.2	384.3	387.8	388.6	390.4	391.8	393.0
37.5°	329.2	329.0	331.0	332.7	337.0	341.9	348.0	353.2	358.1	361.5	365.0
40°	264.1	271.3	277.1	285.1	291.8	301.3	312.2	321.2	329.5	335.6	341.9
42.5°	206.1	215.4	227.5	239.3	251.1	264.1	278.5	290.9	301.9	310.2	316.8
45°	160.6	173.3	188.0	203.0	218.2	234.4	249.4	262.1	273.6	282.3	288.9
47.5°	129.4	143.3	160.0	176.4	193.7	210.8	227.5	238.4	247.9	254.9	260.9
50°	107.0	121.7	139.3	158.0	175.3	192.3	206.7	217.4	225.2	231.2	235.0
52.5°	89.4	104.9	123.7	142.4	159.7	175.3	188.3	196.3	202.7	207.0	210.5
55°	73.8	88.8	106.4	124.0	141.0	155.7	166.4	172.4	177.3	179.9	181.9
57.5°	60.3	74.1	90.2	106.4	121.1	133.2	141.6	147.6	149.9	151.9	151.6
60°	47.3	60.3	75.0	88.8	101.5	111.3	117.3	120.8	122.5	123.4	122.8
62.5°	37.2	49.0	60.3	72.4	81.6	90.0	95.7	95.7	96.6	96.9	97.7
65°	27.7	36.6	46.4	55.4	62.8	68.3	71.5	72.4	73.5	73.2	72.7
67.5°	20.5	27.1	34.3	40.9	46.1	49.6	51.9	53.9	53.6	53.0	52.8
70°	14.1	18.5	24.8	28.8	32.6	36.0	36.6	36.9	37.2	37.5	36.9
72.5°	9.8	13.0	16.4	19.9	22.2	23.6	25.1	25.4	25.4	25.4	25.1
75°	4.9	6.6	9.8	11.2	13.3	13.8	15.0	15.0	15.9	14.7	14.4
77.5°	4.3	5.2	6.9	8.1	8.9	9.8	10.1	11.0	10.7	10.1	10.4
80°	2.6	3.2	4.3	4.9	6.1	6.3	6.6	6.9	6.6	6.9	6.9
82.5°	2.0	2.3	2.9	2.9	3.7	3.7	4.0	4.0	4.3	4.3	4.3
85°	1.2	2.0	1.7	3.5	2.3	2.3	2.9	3.5	2.9	2.9	3.5
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.4	1.7	1.7	2.0	1.7
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°	537.1	537.1	537.1	537.1
2.5°	538.0	538.6	537.7	537.4
5°	538.8	538.8	538.3	538.3
7.5°	538.8	538.8	538.0	537.4
10°	536.5	536.5	535.7	535.1
12.5°	532.2	532.2	531.9	531.1
15°	526.7	526.7	525.6	524.7
17.5°	519.2	519.8	518.4	518.4
20°	511.2	510.9	509.7	509.2
22.5°	502.8	502.2	501.9	500.2
25°	493.9	493.3	492.4	491.6
27.5°	478.6	478.3	477.4	476.3
30°	455.2	454.9	453.8	453.8
32.5°	425.0	424.7	423.5	423.8
35°	393.5	394.7	394.1	393.0
37.5°	367.3	368.2	368.7	368.2
40°	345.4	348.0	348.3	348.9
42.5°	322.0	325.5	326.7	327.2
45°	294.1	297.2	299.8	299.3
47.5°	265.5	267.8	270.1	268.4
50°	238.1	239.6	240.4	240.4
52.5°	212.2	212.2	211.9	212.2
55°	182.5	182.5	181.3	181.9
57.5°	151.4	151.9	151.1	149.6
60°	122.5	121.1	120.5	119.6
62.5°	95.4	95.4	93.4	96.0
65°	71.5	70.6	69.8	69.5
67.5°	51.9	51.6	50.7	50.5
70°	36.6	35.5	35.2	34.6
72.5°	24.5	24.5	23.9	23.9
75°	15.0	13.6	13.3	13.6
77.5°	10.4	10.1	10.1	9.8
80°	6.9	6.6	7.2	6.3
82.5°	4.3	4.6	4.3	4.6
85°	2.9	3.5	3.2	3.2
87.5°	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)