

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: P244200

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244200
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 EC8B10935 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1022.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

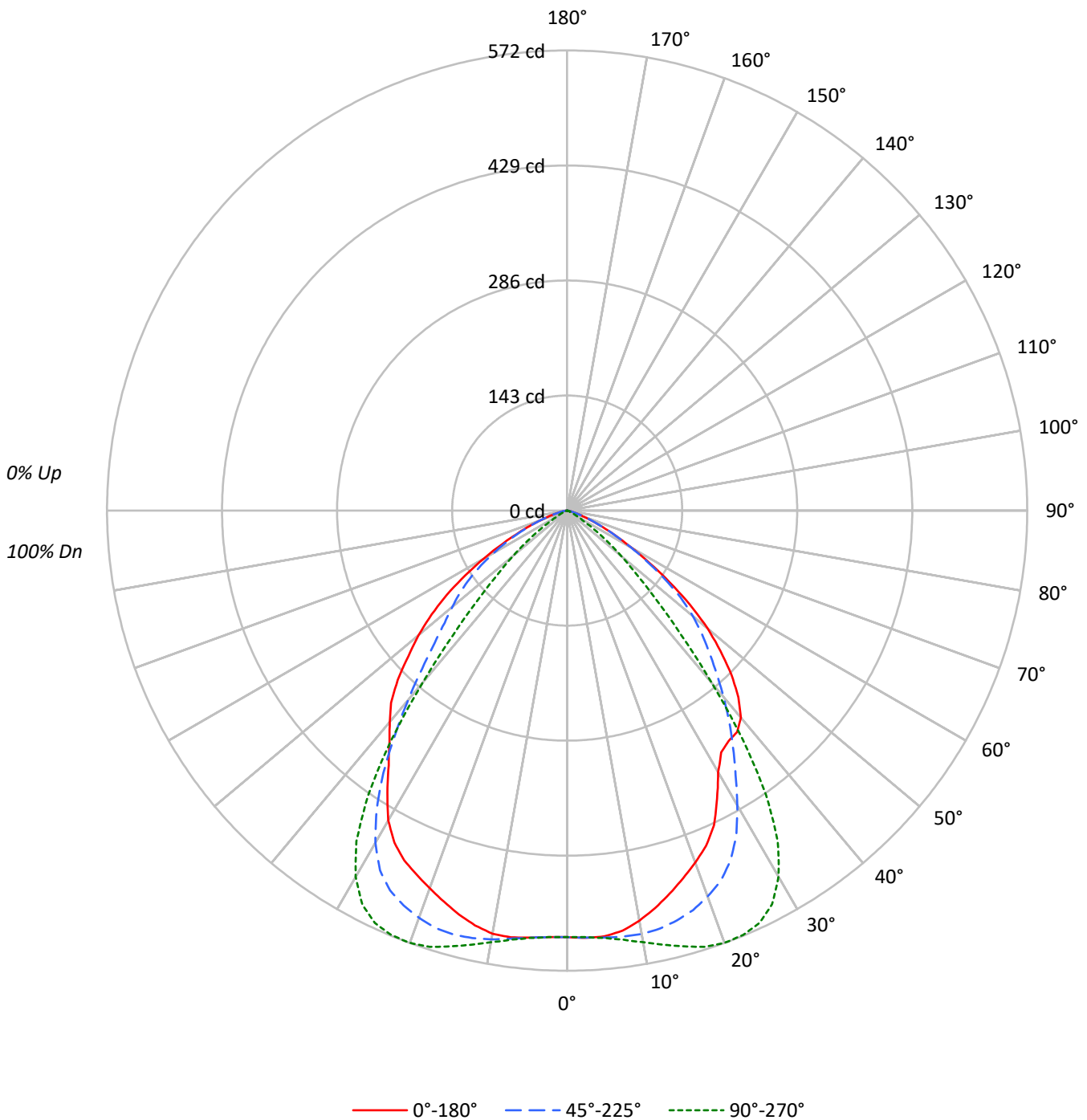
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16349	16349	16349
5°	16446	16508	16489
10°	16204	17059	16724
15°	15732	17906	16594
20°	15276	18764	16391
25°	14688	19244	16315
30°	13367	18718	15831
35°	13168	16217	14565
40°	13525	11247	13807
45°	12590	6799	12982
50°	10923	4198	11571
55°	8381	2193	9817
60°	5711	882	7413
65°	3553	452	5115
70°	1929	279	3120
75°	1001	131	1847
80°	444	142	994
85°	283	106	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	5.0
10°-20°	151.0	14.8
20°-30°	230.4	22.5
30°-40°	240.5	23.5
40°-50°	180.6	17.7
50°-60°	111.1	10.9
60°-70°	45.2	4.4
70°-80°	10.7	1.0
80°-90°	1.5	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°	432.5	42.3
0°-40°	672.9	65.8
0°-60°	964.7	94.4
0°-90°	1022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	530	530	530	530	530	
5°	531	533	533	533	533	50
15°	493	527	561	545	520	139
25°	432	480	566	521	480	196
35°	350	360	431	398	387	221
45°	289	250	156	233	298	220
55°	156	148	41	148	183	140
65°	49	49	6	66	70	51
75°	8	8	1	15	16	10
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°	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2
2.5°	531.6	530.7	531.6	531.6	531.9	531.3	531.6	531.9	531.3	531.3	531.3
5°	531.3	530.7	531.3	531.0	531.6	531.6	532.2	532.2	532.7	532.7	533.6
7.5°	526.8	525.7	526.8	527.7	528.2	529.3	530.7	531.9	533.0	534.1	535.5
10°	517.5	517.5	518.4	520.0	521.7	523.7	526.2	529.1	531.9	534.4	536.9
12.5°	506.0	505.1	506.8	509.1	511.6	514.7	518.6	522.9	527.4	532.4	536.4
15°	492.8	491.9	493.9	496.1	499.2	503.7	508.5	514.1	520.6	527.4	533.8
17.5°	479.2	479.0	480.9	484.0	486.6	491.3	497.5	504.3	511.6	520.6	529.1
20°	465.5	465.2	467.1	469.7	473.1	477.6	483.7	491.6	500.3	510.5	520.3
22.5°	451.1	451.4	453.1	455.9	458.7	463.5	470.0	477.8	487.4	498.4	509.4
25°	431.7	430.3	432.5	435.3	440.1	444.1	450.3	458.7	468.6	480.1	493.0
27.5°	403.5	403.3	405.2	407.8	412.0	416.8	423.5	432.2	442.7	455.3	468.0
30°	375.4	376.0	376.8	379.3	382.2	386.9	393.7	401.0	410.9	423.0	436.5
32.5°	356.3	356.3	357.4	359.1	361.1	363.6	368.4	373.7	381.3	389.8	399.6
35°	349.8	348.7	349.8	350.1	350.4	350.9	351.8	353.5	356.0	359.6	363.3
37.5°	347.0	346.1	346.1	345.0	343.6	341.9	339.7	337.1	334.3	330.7	327.8
40°	336.0	335.4	334.9	333.8	330.7	327.3	323.6	317.7	311.2	302.2	293.2
42.5°	314.9	314.3	314.1	311.8	309.0	305.0	300.8	294.6	286.5	274.9	262.0
45°	288.7	287.6	286.8	284.8	282.8	279.4	275.5	269.9	261.7	249.9	234.4
47.5°	258.3	257.8	257.5	256.7	254.7	252.7	250.2	245.7	238.4	227.1	211.1
50°	227.7	226.5	227.1	226.8	226.0	224.6	222.9	219.8	214.2	204.0	189.4
52.5°	192.5	192.5	192.2	193.0	193.3	193.0	193.3	190.0	185.2	177.6	165.2
55°	155.9	155.9	156.7	157.9	159.0	159.3	159.0	157.6	154.2	148.0	137.0
57.5°	121.6	121.0	122.7	124.4	125.5	126.6	125.8	124.7	122.7	117.6	109.2
60°	92.6	92.6	93.7	94.8	96.0	97.1	96.8	96.5	94.8	91.5	84.7
62.5°	68.1	68.4	68.4	69.2	70.4	71.5	72.3	71.5	70.6	68.4	63.9
65°	48.7	48.4	48.7	49.5	50.4	51.5	52.1	51.8	50.9	49.2	45.9
67.5°	32.6	32.4	33.5	33.8	34.3	35.5	35.2	35.5	35.2	33.8	31.0
70°	21.4	20.8	21.4	21.1	22.0	22.2	22.8	23.1	22.8	22.0	21.1
72.5°	13.2	12.9	13.2	13.5	13.8	14.1	14.6	14.6	14.3	13.8	12.7
75°	8.4	7.6	7.9	7.3	7.9	7.9	8.4	8.7	8.4	8.4	7.9
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.4	5.6	5.1	4.8
80°	2.5	2.5	2.8	2.8	2.8	3.1	2.8	2.8	2.8	3.1	2.3
82.5°	2.0	1.7	1.7	1.7	2.0	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.8	1.1	0.8	0.6	0.8	0.8	1.1	0.8	0.8	0.8	1.1
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	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°	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2
2.5°	531.6	531.0	531.0	530.7	531.3	530.7	531.0	530.7	530.7	531.3	530.7
5°	533.6	533.8	533.3	533.0	533.8	533.8	533.8	533.3	533.3	533.6	533.3
7.5°	536.4	536.9	537.2	537.5	538.1	538.3	538.3	538.1	537.8	538.6	537.5
10°	539.5	540.3	542.0	542.8	544.3	544.3	544.8	544.8	544.3	544.8	544.5
12.5°	538.3	543.4	546.2	548.2	550.2	551.8	552.4	552.7	552.4	553.5	552.4
15°	540.3	544.5	549.0	552.4	556.1	558.0	558.6	560.9	561.4	561.7	560.0
17.5°	537.2	544.8	549.6	554.7	560.0	563.7	567.0	568.5	568.7	569.3	567.0
20°	530.2	538.6	545.9	553.3	559.4	565.1	567.9	571.8	570.7	573.0	569.9
22.5°	520.6	530.2	539.5	549.0	555.5	562.3	568.2	571.0	572.4	572.4	569.0
25°	505.4	516.7	526.8	536.7	546.5	554.7	561.4	565.6	566.5	566.2	562.3
27.5°	481.8	493.9	505.7	517.0	529.1	538.6	546.5	551.6	553.0	553.0	548.8
30°	449.1	462.1	473.6	487.1	499.5	510.2	521.2	525.7	528.2	528.2	523.4
32.5°	410.3	421.3	432.0	445.2	458.7	470.8	481.2	487.4	490.5	490.2	486.0
35°	368.1	373.4	381.6	391.4	403.5	414.8	424.9	430.8	436.2	435.9	432.0
37.5°	325.9	324.5	325.3	329.0	336.6	344.4	352.3	358.0	362.5	364.4	363.6
40°	284.5	277.2	270.2	267.6	268.2	271.0	275.2	279.4	284.5	287.0	288.2
42.5°	247.4	235.0	222.6	213.3	208.0	206.3	208.2	209.6	212.7	216.4	220.1
45°	217.5	200.9	184.6	170.3	161.2	155.9	154.8	155.9	157.6	161.2	166.0
47.5°	193.0	173.6	155.3	139.3	126.1	119.0	117.1	116.5	118.2	121.6	128.0
50°	171.4	152.0	131.7	113.1	99.3	91.5	88.6	87.5	89.5	92.0	97.9
52.5°	147.7	128.6	107.8	89.8	75.4	67.3	64.2	62.5	63.6	67.0	72.9
55°	122.1	104.4	85.5	67.0	53.2	45.6	41.9	40.8	41.9	45.6	51.5
57.5°	96.5	81.6	65.8	48.4	36.0	28.4	24.8	23.6	26.7	28.1	34.3
60°	75.4	63.3	49.8	35.5	24.8	18.9	15.2	14.3	15.8	18.3	23.4
62.5°	56.6	49.0	38.3	25.3	18.3	12.1	10.1	9.3	10.1	12.1	16.0
65°	41.1	35.2	26.7	18.6	12.4	9.0	6.8	6.2	7.0	8.4	11.8
67.5°	28.1	23.6	18.6	12.9	8.4	5.6	4.8	4.8	5.1	6.2	8.7
70°	18.3	15.5	11.8	8.4	5.6	4.2	3.7	3.1	3.7	4.5	5.9
72.5°	11.5	9.8	7.6	5.9	4.2	3.1	2.5	2.3	2.8	3.4	4.5
75°	7.0	5.4	3.9	3.1	2.3	2.3	2.3	1.1	1.4	2.3	2.8
77.5°	4.2	3.7	3.1	2.5	2.0	1.1	1.1	1.1	1.4	1.7	2.5
80°	2.3	2.0	1.4	1.4	1.1	0.8	1.1	0.8	0.6	1.4	1.7
82.5°	1.4	1.1	1.1	1.1	1.4	0.6	0.8	0.6	0.8	1.1	0.8
85°	0.8	0.8	0.8	0.6	1.4	0.6	0.6	0.3	0.3	0.6	0.6
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2
2.5°	531.0	530.7	531.0	530.7	530.7	530.7	531.0	531.0	530.7	530.7	531.3
5°	533.3	533.3	533.3	533.0	532.7	532.7	533.3	533.3	532.4	533.3	533.3
7.5°	538.1	537.2	538.1	536.9	536.4	536.7	536.9	536.4	535.8	536.1	536.1
10°	544.3	543.4	543.4	542.6	541.7	541.2	540.6	539.2	537.8	537.5	536.4
12.5°	551.6	550.2	549.3	547.6	546.2	544.3	542.6	540.3	537.5	535.5	533.6
15°	558.9	556.6	554.7	551.8	548.8	545.4	541.7	538.1	533.6	529.6	526.2
17.5°	564.8	561.7	558.0	553.5	549.0	544.0	538.6	533.3	526.8	521.7	517.8
20°	566.8	562.3	557.5	551.6	545.7	538.6	531.9	524.8	517.5	512.2	507.7
22.5°	564.2	558.9	553.0	546.8	538.9	531.3	523.4	515.3	508.8	501.5	497.3
25°	557.2	550.7	544.3	536.9	529.3	520.9	512.5	504.0	496.1	492.2	486.8
27.5°	542.8	535.8	528.8	521.2	512.5	504.0	495.3	487.1	480.4	475.0	471.9
30°	517.5	509.4	501.2	493.0	485.4	476.7	468.6	461.8	455.0	450.8	447.7
32.5°	478.7	471.4	463.2	455.3	448.3	441.0	434.2	428.3	423.5	420.7	418.5
35°	426.3	419.0	412.8	407.2	401.3	398.2	394.0	390.6	388.6	387.5	387.2
37.5°	360.5	356.3	354.3	353.2	352.0	351.2	351.8	353.2	354.3	356.3	358.5
40°	290.1	293.8	294.9	298.9	302.5	307.3	312.7	318.8	323.9	330.4	334.9
42.5°	226.0	232.7	240.6	249.0	258.1	266.8	277.5	287.3	296.3	304.5	311.5
45°	173.6	184.0	195.9	208.0	220.1	232.7	245.7	257.8	268.5	277.2	284.5
47.5°	135.4	146.9	162.1	177.0	191.6	206.6	220.9	233.6	242.6	251.0	257.5
50°	107.2	120.4	137.0	154.2	170.3	186.0	201.2	213.0	222.0	228.8	233.6
52.5°	83.0	98.8	115.7	133.7	150.8	168.0	182.1	193.0	200.4	206.3	209.9
55°	61.9	77.4	95.4	114.0	131.4	148.0	161.2	170.8	177.3	180.7	182.6
57.5°	44.7	58.8	76.8	95.4	111.2	126.9	137.6	146.3	150.0	152.0	152.8
60°	32.6	45.6	61.6	77.7	92.6	105.2	114.5	120.4	123.3	124.4	124.1
62.5°	23.9	35.2	49.0	62.5	74.6	85.0	92.3	96.2	97.7	98.2	97.4
65°	18.3	27.0	38.8	49.2	58.5	66.1	71.5	74.0	74.9	74.6	74.0
67.5°	13.5	20.3	29.0	36.9	43.6	49.5	52.3	54.6	55.2	54.3	53.5
70°	9.6	14.9	21.1	26.5	31.5	34.9	38.0	38.3	38.3	38.0	37.4
72.5°	6.8	10.4	14.3	18.0	21.1	23.6	24.8	25.6	25.3	25.0	24.5
75°	4.5	6.5	10.4	11.3	14.1	14.9	16.0	16.0	16.3	15.5	15.5
77.5°	2.8	4.5	6.2	7.3	8.4	9.6	10.1	10.1	10.4	10.1	10.1
80°	1.7	2.8	3.4	5.1	5.1	5.9	6.2	6.5	5.9	6.8	5.9
82.5°	1.1	1.7	2.5	2.5	3.1	3.7	3.7	3.9	3.9	3.7	3.7
85°	0.8	1.1	1.4	1.7	1.7	2.0	1.7	1.7	2.0	2.3	2.0
87.5°	0.3	0.6	0.3	0.6	0.6	1.1	0.8	0.8	0.8	1.1	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):

	165°	170°	175°	180°
0°	530.2	530.2	530.2	530.2
2.5°	530.7	531.0	530.7	530.7
5°	533.3	533.0	533.3	532.7
7.5°	535.2	535.2	535.0	535.0
10°	535.2	534.1	534.1	534.1
12.5°	531.0	529.6	528.8	528.2
15°	523.7	521.2	520.0	519.8
17.5°	514.1	511.9	510.5	509.6
20°	503.2	500.9	499.2	499.5
22.5°	493.6	491.1	489.9	489.4
25°	484.0	480.9	480.1	479.5
27.5°	468.6	466.9	466.0	465.2
30°	444.9	444.1	442.7	444.6
32.5°	417.6	416.2	415.1	415.9
35°	387.5	386.7	387.5	386.9
37.5°	359.9	360.8	361.9	362.5
40°	338.3	341.4	342.5	343.0
42.5°	316.6	320.2	322.5	323.9
45°	289.9	293.5	296.0	297.7
47.5°	262.3	265.4	267.9	267.6
50°	237.2	238.9	240.0	241.2
52.5°	211.9	211.9	212.2	212.2
55°	183.2	182.6	182.4	182.6
57.5°	151.7	151.1	150.8	150.0
60°	123.0	121.3	120.2	120.2
62.5°	96.2	94.3	93.4	93.1
65°	72.3	72.0	70.4	70.1
67.5°	52.3	51.2	50.1	50.4
70°	36.9	35.2	35.2	34.6
72.5°	23.9	23.1	22.8	22.8
75°	14.9	14.9	14.3	15.5
77.5°	9.8	9.8	9.6	9.8
80°	5.9	5.9	5.9	5.6
82.5°	3.7	3.9	3.7	3.7
85°	2.0	2.3	1.7	2.5
87.5°	1.1	1.4	1.1	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)