

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: P245514

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245514
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 EC8B109727 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 811.0 lumens
Efficiency: N/A
Efficacy: 79.5 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

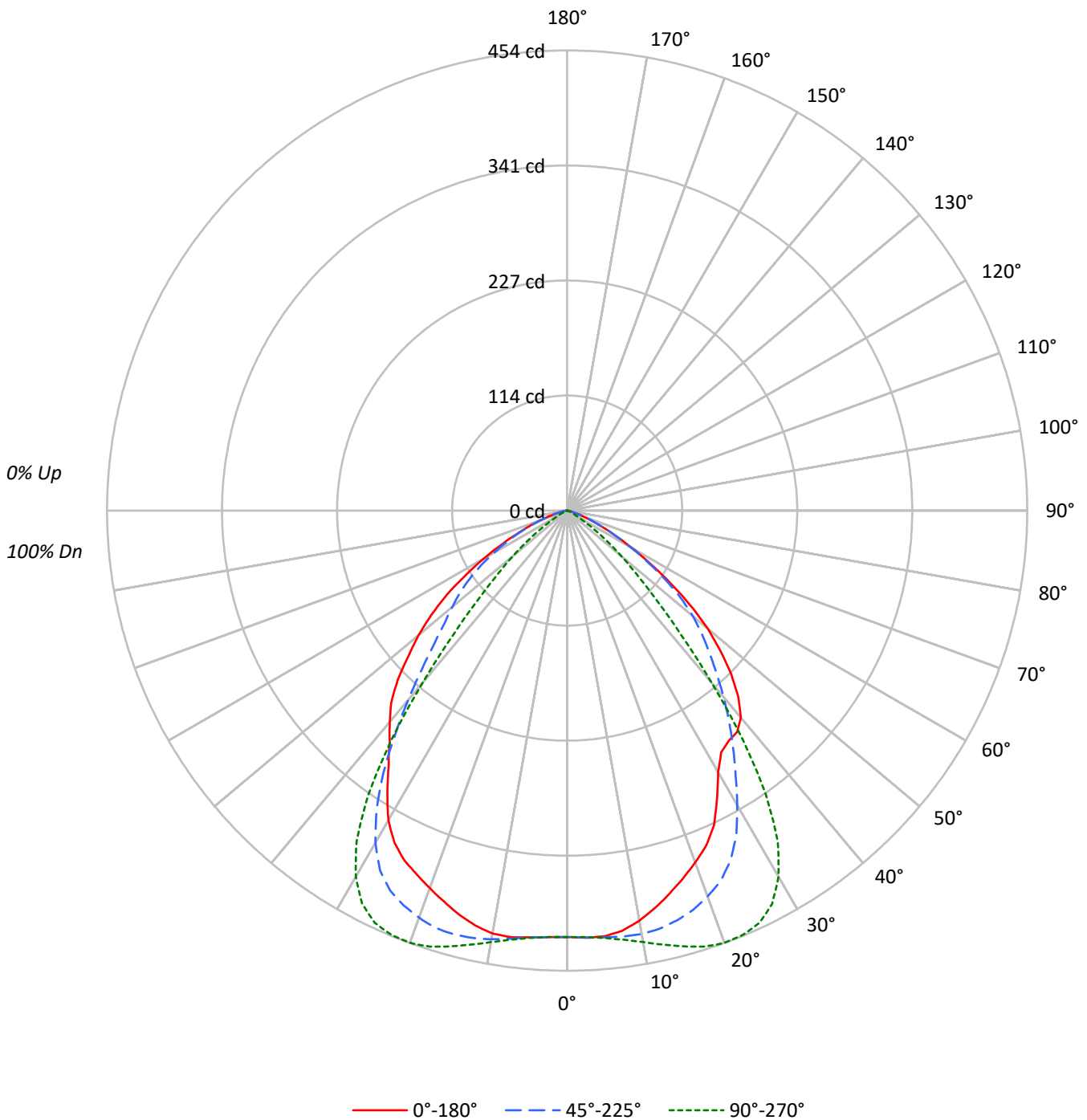
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	12973	12973	12973
5°	13050	13100	13084
10°	12860	13536	13270
15°	12482	14209	13169
20°	12122	14892	13008
25°	11657	15273	12946
30°	10607	14852	12562
35°	10450	12871	11561
40°	10732	8924	10957
45°	9991	5394	10305
50°	8669	3329	9182
55°	6650	1742	7790
60°	4533	703	5884
65°	2816	358	4057
70°	1533	225	2479
75°	798	107	1465
80°	355	124	799
85°	248	71	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	5.0
10°-20°	119.9	14.8
20°-30°	182.9	22.5
30°-40°	190.8	23.5
40°-50°	143.3	17.7
50°-60°	88.2	10.9
60°-70°	35.9	4.4
70°-80°	8.5	1.0
80°-90°	1.2	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°	343.2	42.3
0°-40°	534.0	65.8
0°-60°	765.5	94.4
0°-90°	811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	421	421	421	421	421	
5°	422	423	423	423	423	40
15°	391	418	445	433	412	110
25°	343	381	449	413	380	156
35°	278	285	342	316	307	175
45°	229	198	124	185	236	175
55°	124	118	32	118	145	111
65°	39	39	5	52	56	40
75°	7	7	1	12	12	8
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°	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7
2.5°	421.8	421.2	421.8	421.8	422.1	421.6	421.8	422.1	421.6	421.6	421.6
5°	421.6	421.2	421.6	421.4	421.8	421.8	422.3	422.3	422.7	422.7	423.4
7.5°	418.0	417.1	418.0	418.7	419.2	420.1	421.2	422.1	423.0	423.8	425.0
10°	410.7	410.7	411.3	412.7	414.0	415.6	417.6	419.8	422.1	424.1	426.1
12.5°	401.5	400.8	402.2	404.0	406.0	408.4	411.6	414.9	418.5	422.5	425.6
15°	391.0	390.3	391.9	393.7	396.2	399.7	403.5	408.0	413.1	418.5	423.6
17.5°	380.3	380.1	381.6	384.1	386.1	389.9	394.8	400.2	406.0	413.1	419.8
20°	369.4	369.1	370.7	372.7	375.4	379.0	383.9	390.1	397.0	405.1	412.9
22.5°	358.0	358.2	359.5	361.8	364.0	367.8	372.9	379.2	386.8	395.5	404.2
25°	342.6	341.4	343.2	345.5	349.3	352.4	357.3	364.0	371.8	381.0	391.2
27.5°	320.2	320.0	321.6	323.6	326.9	330.7	336.1	343.0	351.3	361.3	371.4
30°	297.9	298.3	299.0	301.0	303.3	307.1	312.4	318.2	326.0	335.6	346.4
32.5°	282.7	282.7	283.6	284.9	286.5	288.5	292.3	296.6	302.6	309.3	317.1
35°	277.6	276.7	277.6	277.8	278.0	278.5	279.1	280.5	282.5	285.4	288.3
37.5°	275.3	274.7	274.7	273.8	272.7	271.3	269.5	267.5	265.3	262.4	260.2
40°	266.6	266.2	265.7	264.8	262.4	259.7	256.8	252.1	247.0	239.8	232.7
42.5°	249.9	249.4	249.2	247.4	245.2	242.1	238.7	233.8	227.3	218.2	207.9
45°	229.1	228.2	227.6	226.0	224.4	221.7	218.6	214.2	207.7	198.3	186.0
47.5°	205.0	204.6	204.3	203.7	202.1	200.5	198.5	195.0	189.1	180.2	167.5
50°	180.7	179.8	180.2	180.0	179.3	178.2	176.9	174.4	169.9	161.9	150.3
52.5°	152.7	152.7	152.5	153.2	153.4	153.2	153.4	150.7	146.9	140.9	131.1
55°	123.7	123.7	124.4	125.3	126.2	126.4	126.2	125.1	122.4	117.5	108.8
57.5°	96.5	96.0	97.4	98.7	99.6	100.5	99.8	98.9	97.4	93.3	86.6
60°	73.5	73.5	74.4	75.3	76.1	77.0	76.8	76.6	75.3	72.6	67.2
62.5°	54.0	54.3	54.3	54.9	55.8	56.7	57.4	56.7	56.1	54.3	50.7
65°	38.6	38.4	38.6	39.3	40.0	40.9	41.3	41.1	40.4	39.1	36.4
67.5°	25.9	25.7	26.6	26.8	27.2	28.1	27.9	28.1	27.9	26.8	24.6
70°	17.0	16.5	17.0	16.7	17.4	17.6	18.1	18.3	18.1	17.4	16.7
72.5°	10.5	10.3	10.5	10.7	10.9	11.2	11.6	11.6	11.4	10.9	10.0
75°	6.7	6.0	6.3	5.8	6.3	6.3	6.7	6.9	6.7	6.7	6.3
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.5	4.0	3.8
80°	2.0	2.0	2.2	2.2	2.2	2.5	2.2	2.2	2.2	2.5	1.8
82.5°	1.6	1.3	1.3	1.3	1.6	1.3	1.3	1.3	1.3	1.3	1.3
85°	0.7	0.9	0.7	0.4	0.7	0.7	0.9	0.7	0.7	0.7	0.9
87.5°	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.4	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°	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7
2.5°	421.8	421.4	421.4	421.2	421.6	421.2	421.4	421.2	421.2	421.6	421.2
5°	423.4	423.6	423.2	423.0	423.6	423.6	423.6	423.2	423.2	423.4	423.2
7.5°	425.6	426.1	426.3	426.5	427.0	427.2	427.2	427.0	426.8	427.4	426.5
10°	428.1	428.8	430.1	430.8	431.9	431.9	432.3	432.3	431.9	432.3	432.1
12.5°	427.2	431.2	433.4	435.0	436.6	437.9	438.4	438.6	438.4	439.3	438.4
15°	428.8	432.1	435.7	438.4	441.3	442.8	443.3	445.1	445.5	445.7	444.4
17.5°	426.3	432.3	436.1	440.1	444.4	447.3	450.0	451.1	451.3	451.8	450.0
20°	420.7	427.4	433.2	439.0	443.9	448.4	450.6	453.8	452.9	454.7	452.2
22.5°	413.1	420.7	428.1	435.7	440.8	446.2	450.9	453.1	454.2	454.2	451.5
25°	401.1	410.0	418.0	425.9	433.7	440.1	445.5	448.9	449.5	449.3	446.2
27.5°	382.3	391.9	401.3	410.2	419.8	427.4	433.7	437.7	438.8	438.8	435.5
30°	356.4	366.7	375.8	386.6	396.4	404.9	413.6	417.1	419.2	419.2	415.4
32.5°	325.6	334.3	342.8	353.3	364.0	373.6	381.9	386.8	389.2	389.0	385.7
35°	292.1	296.3	302.8	310.6	320.2	329.2	337.2	341.9	346.1	345.9	342.8
37.5°	258.6	257.5	258.2	261.1	267.1	273.3	279.6	284.1	287.6	289.2	288.5
40°	225.8	220.0	214.4	212.4	212.8	215.0	218.4	221.7	225.8	227.8	228.7
42.5°	196.3	186.5	176.6	169.3	165.0	163.7	165.3	166.4	168.8	171.7	174.6
45°	172.6	159.4	146.5	135.1	128.0	123.7	122.8	123.7	125.1	128.0	131.8
47.5°	153.2	137.8	123.3	110.5	100.0	94.5	92.9	92.5	93.8	96.5	101.6
50°	136.0	120.6	104.5	89.8	78.8	72.6	70.3	69.4	71.0	73.0	77.7
52.5°	117.2	102.1	85.5	71.2	59.8	53.4	50.9	49.6	50.5	53.1	57.8
55°	96.9	82.8	67.9	53.1	42.2	36.2	33.3	32.4	33.3	36.2	40.9
57.5°	76.6	64.8	52.3	38.4	28.6	22.6	19.6	18.8	21.2	22.3	27.2
60°	59.8	50.2	39.5	28.1	19.6	15.0	12.1	11.4	12.5	14.5	18.5
62.5°	44.9	38.9	30.4	20.1	14.5	9.6	8.0	7.4	8.0	9.6	12.7
65°	32.6	27.9	21.2	14.7	9.8	7.1	5.4	4.9	5.6	6.7	9.4
67.5°	22.3	18.8	14.7	10.3	6.7	4.5	3.8	3.8	4.0	4.9	6.9
70°	14.5	12.3	9.4	6.7	4.5	3.3	2.9	2.5	2.9	3.6	4.7
72.5°	9.2	7.8	6.0	4.7	3.3	2.5	2.0	1.8	2.2	2.7	3.6
75°	5.6	4.2	3.1	2.5	1.8	1.8	1.8	0.9	1.1	1.8	2.2
77.5°	3.3	2.9	2.5	2.0	1.6	0.9	0.9	0.9	1.1	1.3	2.0
80°	1.8	1.6	1.1	1.1	0.9	0.7	0.9	0.7	0.4	1.1	1.3
82.5°	1.1	0.9	0.9	0.9	1.1	0.4	0.7	0.4	0.7	0.9	0.7
85°	0.7	0.7	0.7	0.4	1.1	0.4	0.4	0.2	0.2	0.4	0.4
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°	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7
2.5°	421.4	421.2	421.4	421.2	421.2	421.2	421.4	421.4	421.2	421.2	421.6
5°	423.2	423.2	423.2	423.0	422.7	422.7	423.2	423.2	422.5	423.2	423.2
7.5°	427.0	426.3	427.0	426.1	425.6	425.9	426.1	425.6	425.2	425.4	425.4
10°	431.9	431.2	431.2	430.5	429.9	429.4	429.0	427.9	426.8	426.5	425.6
12.5°	437.7	436.6	435.9	434.6	433.4	431.9	430.5	428.8	426.5	425.0	423.4
15°	443.5	441.7	440.1	437.9	435.5	432.8	429.9	427.0	423.4	420.3	417.6
17.5°	448.2	445.7	442.8	439.3	435.7	431.7	427.4	423.2	418.0	414.0	410.9
20°	449.7	446.2	442.4	437.7	433.0	427.4	422.1	416.5	410.7	406.4	402.9
22.5°	447.7	443.5	438.8	433.9	427.6	421.6	415.4	408.9	403.7	397.9	394.6
25°	442.2	437.0	431.9	426.1	420.1	413.4	406.7	400.0	393.7	390.6	386.3
27.5°	430.8	425.2	419.6	413.6	406.7	400.0	393.0	386.6	381.2	377.0	374.5
30°	410.7	404.2	397.7	391.2	385.2	378.3	371.8	366.5	361.1	357.7	355.3
32.5°	379.9	374.0	367.6	361.3	355.7	349.9	344.6	339.9	336.1	333.9	332.1
35°	338.3	332.5	327.6	323.1	318.4	316.0	312.6	310.0	308.4	307.5	307.3
37.5°	286.1	282.7	281.1	280.3	279.4	278.7	279.1	280.3	281.1	282.7	284.5
40°	230.2	233.1	234.0	237.2	240.1	243.9	248.1	253.0	257.0	262.2	265.7
42.5°	179.3	184.7	190.9	197.6	204.8	211.7	220.2	228.0	235.1	241.6	247.2
45°	137.8	146.0	155.4	165.0	174.6	184.7	195.0	204.6	213.0	220.0	225.8
47.5°	107.4	116.6	128.6	140.5	152.1	163.9	175.3	185.3	192.5	199.2	204.3
50°	85.1	95.6	108.8	122.4	135.1	147.6	159.7	169.0	176.2	181.6	185.3
52.5°	65.9	78.4	91.8	106.1	119.7	133.3	144.5	153.2	159.0	163.7	166.6
55°	49.1	61.4	75.7	90.4	104.3	117.5	128.0	135.6	140.7	143.4	144.9
57.5°	35.5	46.7	61.0	75.7	88.2	100.7	109.2	116.1	119.0	120.6	121.3
60°	25.9	36.2	48.9	61.6	73.5	83.5	90.9	95.6	97.8	98.7	98.5
62.5°	19.0	27.9	38.9	49.6	59.2	67.4	73.2	76.4	77.5	77.9	77.3
65°	14.5	21.4	30.8	39.1	46.5	52.5	56.7	58.7	59.4	59.2	58.7
67.5°	10.7	16.1	23.0	29.3	34.6	39.3	41.5	43.3	43.8	43.1	42.4
70°	7.6	11.8	16.7	21.0	25.0	27.7	30.1	30.4	30.4	30.1	29.7
72.5°	5.4	8.3	11.4	14.3	16.7	18.8	19.6	20.3	20.1	19.9	19.4
75°	3.6	5.1	8.3	8.9	11.2	11.8	12.7	12.7	12.9	12.3	12.3
77.5°	2.2	3.6	4.9	5.8	6.7	7.6	8.0	8.0	8.3	8.0	8.0
80°	1.3	2.2	2.7	4.0	4.0	4.7	4.9	5.1	4.7	5.4	4.7
82.5°	0.9	1.3	2.0	2.0	2.5	2.9	2.9	3.1	3.1	2.9	2.9
85°	0.7	0.9	1.1	1.3	1.3	1.6	1.3	1.3	1.6	1.8	1.6
87.5°	0.2	0.4	0.2	0.4	0.4	0.9	0.7	0.7	0.7	0.9	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):

	165°	170°	175°	180°
0°	420.7	420.7	420.7	420.7
2.5°	421.2	421.4	421.2	421.2
5°	423.2	423.0	423.2	422.7
7.5°	424.7	424.7	424.5	424.5
10°	424.7	423.8	423.8	423.8
12.5°	421.4	420.3	419.6	419.2
15°	415.6	413.6	412.7	412.5
17.5°	408.0	406.2	405.1	404.4
20°	399.3	397.5	396.2	396.4
22.5°	391.7	389.7	388.8	388.3
25°	384.1	381.6	381.0	380.5
27.5°	371.8	370.5	369.8	369.1
30°	353.1	352.4	351.3	352.8
32.5°	331.4	330.3	329.4	330.1
35°	307.5	306.8	307.5	307.1
37.5°	285.6	286.3	287.2	287.6
40°	268.4	270.9	271.8	272.2
42.5°	251.2	254.1	255.9	257.0
45°	230.0	232.9	234.9	236.3
47.5°	208.1	210.6	212.6	212.4
50°	188.3	189.6	190.5	191.4
52.5°	168.2	168.2	168.4	168.4
55°	145.4	144.9	144.7	144.9
57.5°	120.4	119.9	119.7	119.0
60°	97.6	96.2	95.4	95.4
62.5°	76.4	74.8	74.1	73.9
65°	57.4	57.2	55.8	55.6
67.5°	41.5	40.6	39.8	40.0
70°	29.3	27.9	27.9	27.5
72.5°	19.0	18.3	18.1	18.1
75°	11.8	11.8	11.4	12.3
77.5°	7.8	7.8	7.6	7.8
80°	4.7	4.7	4.7	4.5
82.5°	2.9	3.1	2.9	2.9
85°	1.6	1.8	1.3	2.0
87.5°	0.9	1.1	0.9	1.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)