

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: P246234

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246234
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 EC8B109727 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 796.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

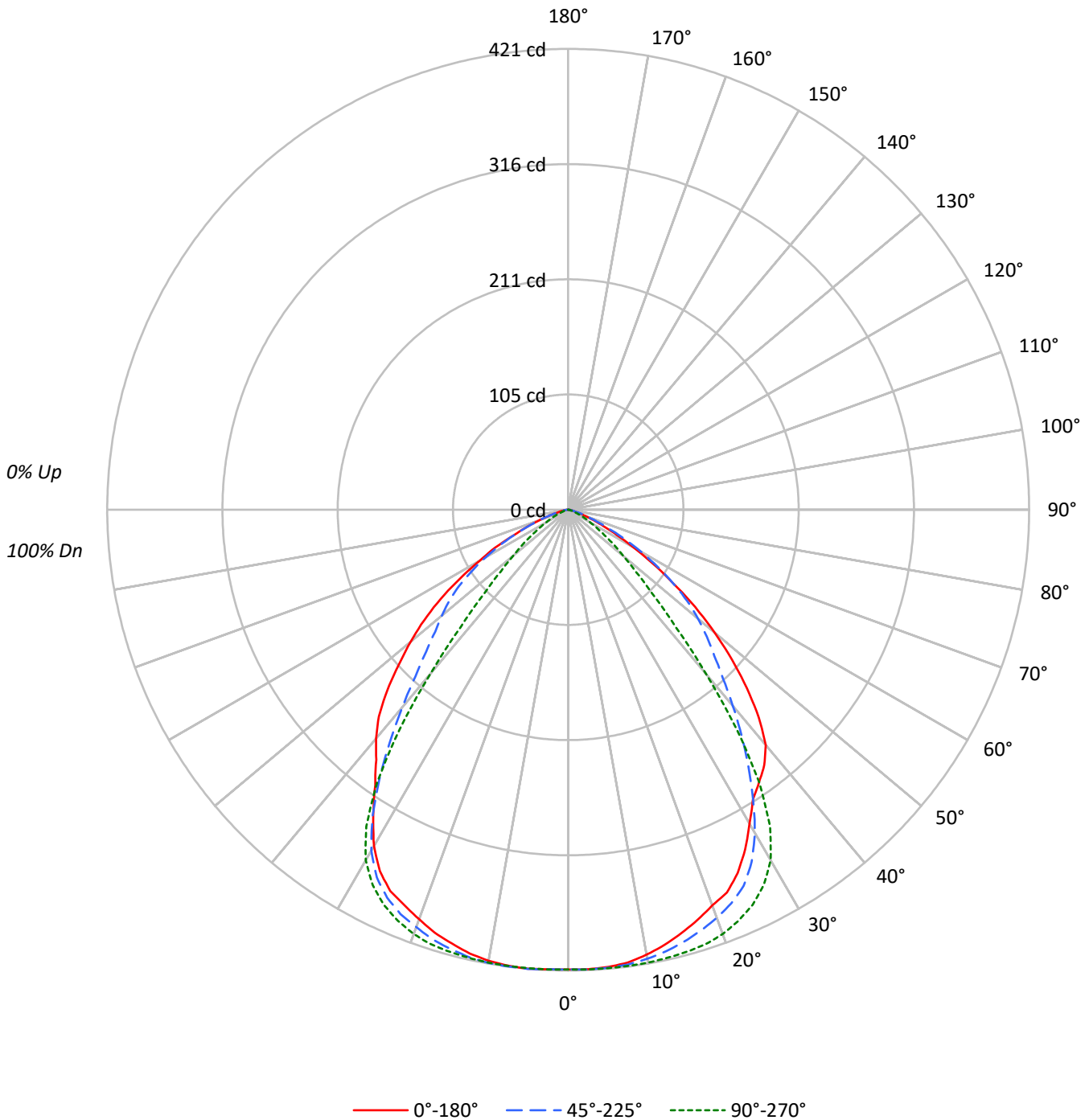
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	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°	12951	12951	12951
5°	12979	13013	13029
10°	12926	13157	13101
15°	12782	13351	13098
20°	12627	13536	13064
25°	12463	13552	13079
30°	11793	13171	12633
35°	11440	11448	11568
40°	11299	7878	10981
45°	10065	4727	10205
50°	8371	3147	9019
55°	6279	2172	7645
60°	4255	1443	5773
65°	2568	941	3962
70°	1425	505	2443
75°	643	214	1263
80°	568	249	888
85°	637	318	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	5.0
10°-20°	116.4	14.6
20°-30°	176.7	22.2
30°-40°	185.6	23.3
40°-50°	139.1	17.5
50°-60°	89.3	11.2
60°-70°	38.2	4.8
70°-80°	9.0	1.1
80°-90°	1.7	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°	333.2	41.9
0°-40°	518.7	65.2
0°-60°	747.1	93.9
0°-90°	796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	796.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	420	420	420	420	420	
5°	419	420	420	421	421	40
15°	400	409	418	416	410	113
25°	366	379	398	391	384	167
35°	304	287	304	300	307	191
45°	231	189	108	183	234	177
55°	117	117	40	122	142	106
65°	35	42	13	53	54	38
75°	5	6	2	11	11	8
85°	2	1	1	2	2	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°	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0
2.5°	420.2	420.7	420.4	420.4	420.2	420.4	420.4	420.9	420.9	420.4	420.2
5°	419.3	419.8	419.8	419.3	419.3	420.4	419.8	420.2	420.2	420.0	420.0
7.5°	417.3	417.3	418.2	417.5	417.5	418.2	418.0	418.4	418.9	419.1	419.1
10°	412.8	413.2	413.4	413.4	413.7	414.3	414.8	415.7	416.2	416.6	416.8
12.5°	407.1	407.8	408.0	407.8	408.5	409.4	410.5	411.6	412.3	413.2	413.9
15°	400.4	400.4	400.8	401.5	402.0	403.3	404.4	405.8	407.6	408.7	409.8
17.5°	392.9	393.4	394.1	394.1	395.0	397.2	397.9	399.9	402.0	403.1	405.3
20°	384.8	385.3	385.9	386.4	387.5	389.3	390.7	392.5	394.7	396.8	399.0
22.5°	378.5	377.6	378.1	378.5	379.6	381.2	382.8	385.0	387.3	389.3	391.6
25°	366.3	366.6	367.2	367.7	369.0	370.4	372.2	374.9	376.9	379.2	381.7
27.5°	349.9	350.1	351.2	351.2	352.4	354.6	355.7	358.0	360.7	362.9	365.9
30°	331.2	331.6	331.6	332.5	333.2	334.3	335.4	337.7	339.1	341.1	345.1
32.5°	314.0	314.5	314.3	314.0	313.4	313.1	312.9	313.4	313.8	314.5	316.1
35°	303.9	302.8	301.9	300.3	298.5	296.2	294.2	291.5	289.0	287.0	284.7
37.5°	294.2	294.0	292.6	290.4	286.8	282.7	278.0	272.1	266.2	259.9	253.8
40°	280.7	280.0	278.9	275.7	271.6	266.7	260.4	253.2	243.7	234.0	224.1
42.5°	257.7	257.9	256.5	254.1	250.2	245.5	239.0	231.1	220.9	209.4	196.6
45°	230.8	230.8	230.4	228.4	225.7	221.8	216.9	210.3	200.4	188.7	174.9
47.5°	202.9	203.1	202.4	202.0	200.9	198.4	194.8	189.8	182.8	171.6	157.8
50°	174.5	174.5	175.6	175.4	175.4	174.5	172.9	170.0	163.9	154.9	142.0
52.5°	146.1	146.5	147.2	148.1	149.2	151.0	149.2	147.9	144.1	137.1	126.0
55°	116.8	117.2	118.4	119.9	121.3	123.1	123.5	123.5	121.5	116.8	108.4
57.5°	91.8	91.1	92.0	93.3	95.1	96.9	98.3	99.9	99.6	96.5	89.7
60°	69.0	69.2	69.9	71.2	72.6	74.2	76.0	77.3	78.0	76.4	72.1
62.5°	50.3	50.3	51.2	52.5	53.2	55.5	56.6	57.3	57.9	57.7	55.0
65°	35.2	35.6	36.1	36.7	37.4	38.8	39.5	40.8	41.3	41.5	39.5
67.5°	24.8	24.1	24.6	25.0	25.7	26.6	28.0	28.0	28.6	28.6	27.3
70°	15.8	15.8	16.0	16.7	17.1	17.4	17.8	18.3	18.9	18.7	18.7
72.5°	10.6	10.4	10.6	10.8	11.0	11.7	11.7	11.9	12.4	12.6	11.7
75°	5.4	5.6	6.1	5.9	6.5	6.1	6.3	7.0	6.8	6.3	6.3
77.5°	4.5	4.5	4.5	4.3	4.7	4.7	4.5	5.0	4.7	4.7	4.5
80°	3.2	3.4	3.2	2.9	3.2	2.9	2.9	2.9	2.9	2.9	2.7
82.5°	2.5	2.0	2.3	2.0	2.3	2.3	2.0	1.8	1.8	2.0	1.8
85°	1.8	1.4	1.6	1.6	1.4	1.4	1.4	1.4	1.4	1.1	1.1
87.5°	1.1	0.7	0.7	0.7	0.9	0.9	0.9	0.7	0.9	0.9	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°	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0
2.5°	420.7	420.4	420.9	420.7	420.7	420.4	420.7	420.4	420.9	420.0	420.2
5°	420.7	420.2	420.4	420.7	420.9	420.4	420.4	420.4	420.9	420.4	420.7
7.5°	419.8	419.5	420.2	420.7	420.4	420.2	420.7	420.4	420.9	420.7	421.1
10°	418.0	418.2	418.6	419.3	419.5	419.8	420.2	420.2	420.9	420.0	420.4
12.5°	415.3	416.2	417.3	417.7	418.6	418.6	419.1	419.3	419.8	419.5	420.2
15°	411.9	413.0	414.3	415.5	416.6	417.3	418.0	418.2	418.9	418.2	418.4
17.5°	407.8	409.2	411.2	412.5	414.3	415.0	415.9	416.4	417.1	416.6	416.8
20°	402.2	403.8	406.0	408.0	409.2	410.7	411.9	412.5	413.0	412.5	412.8
22.5°	394.3	396.5	399.5	401.0	403.3	404.7	404.9	406.5	407.6	406.5	406.9
25°	385.0	387.3	389.6	392.9	395.0	396.5	398.1	398.3	399.5	399.2	399.0
27.5°	369.7	372.6	376.5	379.2	381.9	384.4	386.2	386.6	387.7	387.3	387.5
30°	348.7	351.9	355.5	359.8	363.6	366.1	368.4	369.9	371.1	370.4	370.2
32.5°	319.0	322.1	326.0	330.3	334.8	338.4	341.1	343.1	344.5	344.0	342.9
35°	285.0	285.9	288.3	291.7	295.5	299.4	301.9	304.1	305.7	306.1	306.1
37.5°	250.0	247.1	245.3	245.3	247.5	249.1	251.4	252.7	255.2	256.1	256.8
40°	216.2	209.4	203.1	198.4	195.2	195.0	195.0	195.7	197.9	200.9	203.6
42.5°	186.0	175.2	165.5	156.7	150.4	146.8	145.2	145.4	147.2	149.9	154.4
45°	161.9	148.3	136.2	125.6	117.0	111.4	108.7	108.4	109.8	112.9	117.9
47.5°	143.2	128.7	115.0	102.8	93.6	87.5	84.3	83.4	84.3	87.2	93.1
50°	127.6	112.7	98.5	85.9	76.0	69.7	66.7	65.6	66.7	69.2	75.1
52.5°	113.2	97.8	84.5	72.4	61.8	56.4	53.2	52.5	53.2	56.1	60.9
55°	96.5	83.4	70.3	58.2	48.9	43.5	41.0	40.4	41.0	43.7	48.7
57.5°	80.0	68.8	57.3	46.2	38.3	33.6	31.3	30.4	32.0	33.8	39.7
60°	64.7	55.7	46.0	36.3	29.8	25.5	23.7	23.4	23.9	26.2	30.2
62.5°	50.7	43.3	35.6	27.7	22.3	20.5	18.3	18.0	18.5	19.8	23.0
65°	36.5	31.8	25.9	20.3	16.0	13.5	12.6	12.9	13.3	14.2	17.1
67.5°	25.5	22.1	18.0	14.2	11.0	9.9	9.0	8.8	9.0	10.6	12.2
70°	17.1	15.1	12.2	10.8	7.7	6.1	6.3	5.6	6.5	6.5	7.9
72.5°	11.3	9.9	8.1	6.3	5.4	4.3	4.3	4.1	4.5	4.7	5.9
75°	5.9	4.5	4.5	3.2	2.3	1.1	2.0	1.8	1.6	1.8	2.3
77.5°	4.1	3.4	3.2	2.5	2.3	1.8	1.8	1.8	1.8	2.0	2.3
80°	2.5	2.5	1.8	1.6	1.4	1.1	1.4	1.4	1.4	1.4	1.6
82.5°	1.6	1.4	1.4	1.1	1.1	0.9	0.9	0.9	0.9	0.9	1.4
85°	1.4	0.9	0.9	0.7	0.9	1.6	0.7	0.9	0.9	0.9	0.7
87.5°	0.5	0.7	0.7	0.7	0.5	0.2	0.5	0.7	0.7	1.1	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0
2.5°	420.7	420.9	420.9	420.7	420.7	420.2	421.1	420.4	420.7	421.6	420.9
5°	421.1	421.3	421.3	421.1	421.1	421.1	421.3	421.3	421.1	420.9	421.3
7.5°	422.0	421.8	421.8	421.3	421.3	420.9	421.3	420.7	421.1	420.7	421.3
10°	420.9	421.1	420.9	420.7	420.7	420.4	420.4	419.8	420.0	419.3	419.8
12.5°	420.2	420.0	420.0	419.5	419.1	418.6	418.4	417.7	417.7	416.2	416.8
15°	418.4	418.6	418.0	417.1	416.6	415.5	415.0	414.1	413.2	412.1	412.3
17.5°	416.8	416.2	415.3	414.3	412.5	411.6	410.7	409.4	408.9	407.6	407.1
20°	412.1	411.6	410.5	408.9	407.8	405.8	404.9	403.5	402.4	401.0	400.4
22.5°	406.0	405.6	404.2	402.6	400.8	399.9	399.0	396.5	395.4	394.1	393.8
25°	398.3	397.7	396.3	394.5	393.6	391.1	390.2	388.4	388.0	386.6	386.4
27.5°	386.6	385.7	384.1	381.9	380.3	378.7	377.8	376.5	376.0	374.7	374.5
30°	369.0	367.9	364.8	363.9	361.1	359.6	359.6	357.8	358.0	357.1	357.1
32.5°	341.3	339.5	337.0	335.2	333.4	332.5	332.5	331.8	332.3	332.3	332.7
35°	304.6	302.1	300.7	299.6	299.6	300.5	303.2	303.9	305.2	306.4	307.3
37.5°	257.4	257.2	258.8	260.2	263.5	267.4	272.1	276.2	280.0	282.7	285.4
40°	206.5	212.1	216.6	223.0	228.1	235.6	244.1	251.1	257.7	262.4	267.4
42.5°	161.2	168.4	177.9	187.1	196.4	206.5	217.8	227.5	236.0	242.6	247.8
45°	125.6	135.5	147.0	158.7	170.7	183.3	195.0	204.9	213.9	220.7	225.9
47.5°	101.2	112.0	125.1	138.0	151.5	164.8	177.9	186.4	193.9	199.3	204.0
50°	83.6	95.1	108.9	123.5	137.1	150.4	161.6	170.0	176.1	180.8	183.7
52.5°	69.9	82.1	96.7	111.4	124.9	137.1	147.2	153.5	158.5	161.9	164.6
55°	57.7	69.4	83.2	96.9	110.2	121.7	130.1	134.8	138.6	140.7	142.2
57.5°	47.1	57.9	70.6	83.2	94.7	104.2	110.7	115.4	117.2	118.8	118.6
60°	37.0	47.1	58.6	69.4	79.4	87.0	91.8	94.5	95.8	96.5	96.0
62.5°	29.1	38.3	47.1	56.6	63.8	70.3	74.8	74.8	75.5	75.7	76.4
65°	21.6	28.6	36.3	43.3	49.1	53.4	55.9	56.6	57.5	57.3	56.8
67.5°	16.0	21.2	26.8	32.0	36.1	38.8	40.6	42.2	41.9	41.5	41.3
70°	11.0	14.4	19.4	22.5	25.5	28.2	28.6	28.9	29.1	29.3	28.9
72.5°	7.7	10.1	12.9	15.6	17.4	18.5	19.6	19.8	19.8	19.8	19.6
75°	3.8	5.2	7.7	8.8	10.4	10.8	11.7	11.7	12.4	11.5	11.3
77.5°	3.4	4.1	5.4	6.3	7.0	7.7	7.9	8.6	8.3	7.9	8.1
80°	2.0	2.5	3.4	3.8	4.7	5.0	5.2	5.4	5.2	5.4	5.4
82.5°	1.6	1.8	2.3	2.3	2.9	2.9	3.2	3.2	3.4	3.4	3.4
85°	0.9	1.6	1.4	2.7	1.8	1.8	2.3	2.7	2.3	2.3	2.7
87.5°	0.9	0.9	0.7	0.9	0.9	0.9	1.1	1.4	1.4	1.6	1.4
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°	420.0	420.0	420.0	420.0
2.5°	420.7	421.1	420.4	420.2
5°	421.3	421.3	420.9	420.9
7.5°	421.3	421.3	420.7	420.2
10°	419.5	419.5	418.9	418.4
12.5°	416.2	416.2	415.9	415.3
15°	411.9	411.9	411.0	410.3
17.5°	406.0	406.5	405.3	405.3
20°	399.7	399.5	398.6	398.1
22.5°	393.2	392.7	392.5	391.1
25°	386.2	385.7	385.0	384.4
27.5°	374.2	374.0	373.3	372.4
30°	356.0	355.7	354.8	354.8
32.5°	332.3	332.1	331.2	331.4
35°	307.7	308.6	308.2	307.3
37.5°	287.2	287.9	288.3	287.9
40°	270.1	272.1	272.3	272.8
42.5°	251.8	254.5	255.4	255.9
45°	229.9	232.4	234.5	234.0
47.5°	207.6	209.4	211.2	209.9
50°	186.2	187.3	188.0	188.0
52.5°	165.9	165.9	165.7	165.9
55°	142.7	142.7	141.8	142.2
57.5°	118.4	118.8	118.1	117.0
60°	95.8	94.7	94.2	93.6
62.5°	74.6	74.6	73.0	75.1
65°	55.9	55.2	54.6	54.3
67.5°	40.6	40.4	39.7	39.5
70°	28.6	27.7	27.5	27.1
72.5°	19.2	19.2	18.7	18.7
75°	11.7	10.6	10.4	10.6
77.5°	8.1	7.9	7.9	7.7
80°	5.4	5.2	5.6	5.0
82.5°	3.4	3.6	3.4	3.6
85°	2.3	2.7	2.5	2.5
87.5°	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)