

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: P245028

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245028
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 EC8B10830 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1106.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

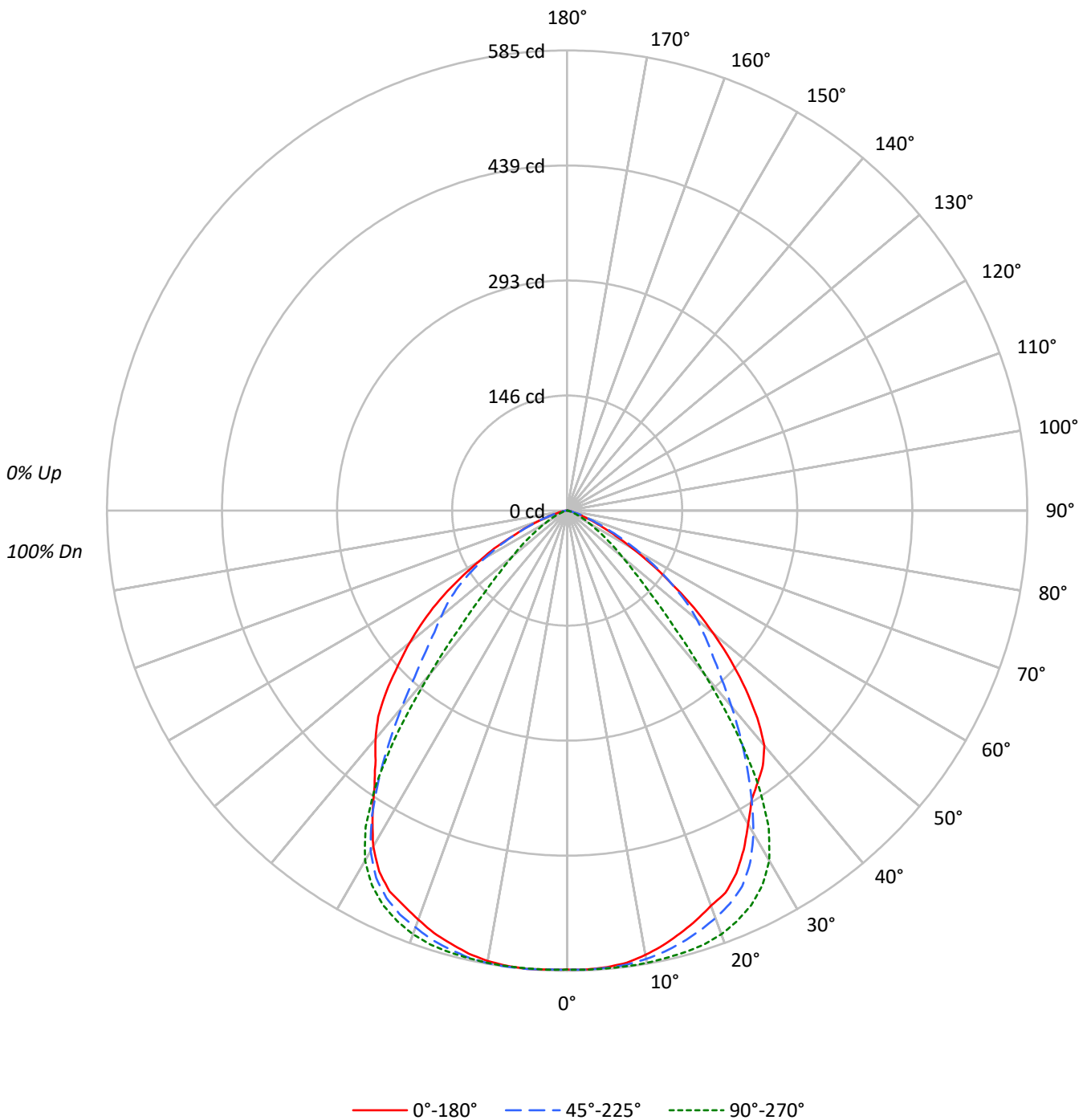
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17993	17993	17993
5°	18034	18083	18102
10°	17957	18283	18205
15°	17759	18548	18200
20°	17546	18810	18153
25°	17318	18832	18172
30°	16383	18302	17554
35°	15893	15905	16070
40°	15699	10945	15256
45°	13985	6572	14177
50°	11629	4375	12530
55°	8725	3016	10623
60°	5908	2011	8017
65°	3568	1306	5509
70°	1974	703	3390
75°	894	298	1751
80°	781	337	1225
85°	885	425	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	5.0
10°-20°	161.7	14.6
20°-30°	245.5	22.2
30°-40°	257.8	23.3
40°-50°	193.3	17.5
50°-60°	124.0	11.2
60°-70°	53.1	4.8
70°-80°	12.5	1.1
80°-90°	2.3	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°	462.9	41.9
0°-40°	720.7	65.2
0°-60°	1038.1	93.9
0°-90°	1106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1106.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	584	584	584	584	584	
5°	583	584	584	585	585	55
15°	556	568	581	577	570	157
25°	509	527	554	544	534	233
35°	422	399	422	418	427	265
45°	321	262	151	255	325	246
55°	162	162	56	169	198	147
65°	49	58	18	74	76	52
75°	8	9	2	15	15	11
85°	2	2	1	2	3	3
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°	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5
2.5°	583.9	584.5	584.2	584.2	583.9	584.2	584.2	584.8	584.8	584.2	583.9
5°	582.6	583.2	583.2	582.6	582.6	584.2	583.2	583.9	583.9	583.5	583.5
7.5°	579.8	579.8	581.0	580.1	580.1	581.0	580.7	581.4	582.0	582.3	582.3
10°	573.5	574.2	574.5	574.5	574.8	575.7	576.3	577.6	578.2	578.8	579.2
12.5°	565.7	566.6	566.9	566.6	567.6	568.8	570.4	572.0	572.9	574.2	575.1
15°	556.3	556.3	556.9	557.9	558.5	560.4	561.9	563.8	566.3	567.9	569.5
17.5°	546.0	546.6	547.5	547.5	548.8	551.9	552.9	555.7	558.5	560.1	563.2
20°	534.7	535.3	536.3	536.9	538.4	540.9	542.8	545.3	548.5	551.3	554.4
22.5°	525.9	524.7	525.3	525.9	527.5	529.7	531.9	535.0	538.1	540.9	544.1
25°	509.0	509.3	510.3	510.9	512.8	514.6	517.1	520.9	523.7	526.9	530.3
27.5°	486.1	486.4	488.0	488.0	489.6	492.7	494.3	497.4	501.2	504.3	508.4
30°	460.1	460.8	460.8	462.0	463.0	464.5	466.1	469.2	471.1	473.9	479.6
32.5°	436.3	437.0	436.6	436.3	435.4	435.1	434.8	435.4	436.0	437.0	439.1
35°	422.2	420.7	419.4	417.2	414.7	411.6	408.8	405.0	401.6	398.7	395.6
37.5°	408.8	408.5	406.6	403.4	398.4	392.8	386.2	378.1	369.9	361.2	352.7
40°	390.0	389.0	387.5	383.1	377.4	370.6	361.8	351.8	338.6	325.1	311.4
42.5°	358.0	358.3	356.5	353.0	347.7	341.1	332.0	321.1	307.0	291.0	273.1
45°	320.7	320.7	320.1	317.3	313.5	308.2	301.3	292.2	278.5	262.2	243.1
47.5°	281.9	282.2	281.3	280.7	279.1	275.6	270.6	263.7	254.0	238.4	219.3
50°	242.4	242.4	244.0	243.7	243.7	242.4	240.3	236.2	227.7	215.2	197.3
52.5°	203.0	203.6	204.5	205.8	207.4	209.9	207.4	205.5	200.2	190.4	175.1
55°	162.3	162.9	164.4	166.6	168.5	171.0	171.6	171.6	168.8	162.3	150.7
57.5°	127.5	126.5	127.8	129.7	132.2	134.7	136.6	138.8	138.4	134.1	124.7
60°	95.8	96.2	97.1	99.0	100.9	103.1	105.6	107.4	108.4	106.2	100.2
62.5°	69.9	69.9	71.1	73.0	73.9	77.1	78.6	79.6	80.5	80.2	76.4
65°	48.9	49.5	50.1	51.1	52.0	53.9	54.8	56.7	57.3	57.6	54.8
67.5°	34.5	33.5	34.1	34.8	35.7	37.0	38.8	38.8	39.8	39.8	37.9
70°	21.9	21.9	22.2	23.2	23.8	24.1	24.7	25.4	26.3	26.0	26.0
72.5°	14.7	14.4	14.7	15.0	15.4	16.3	16.3	16.6	17.2	17.5	16.3
75°	7.5	7.8	8.5	8.1	9.1	8.5	8.8	9.7	9.4	8.8	8.8
77.5°	6.3	6.3	6.3	6.0	6.6	6.6	6.3	6.9	6.6	6.6	6.3
80°	4.4	4.7	4.4	4.1	4.4	4.1	4.1	4.1	4.1	4.1	3.8
82.5°	3.4	2.8	3.1	2.8	3.1	3.1	2.8	2.5	2.5	2.8	2.5
85°	2.5	1.9	2.2	2.2	1.9	1.9	1.9	1.9	1.9	1.6	1.6
87.5°	1.6	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°	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5
2.5°	584.5	584.2	584.8	584.5	584.5	584.2	584.5	584.2	584.8	583.5	583.9
5°	584.5	583.9	584.2	584.5	584.8	584.2	584.2	584.2	584.8	584.2	584.5
7.5°	583.2	582.9	583.9	584.5	584.2	583.9	584.5	584.2	584.8	584.5	585.1
10°	580.7	581.0	581.7	582.6	582.9	583.2	583.9	583.9	584.8	583.5	584.2
12.5°	577.0	578.2	579.8	580.4	581.7	581.7	582.3	582.6	583.2	582.9	583.9
15°	572.3	573.8	575.7	577.3	578.8	579.8	580.7	581.0	582.0	581.0	581.4
17.5°	566.6	568.5	571.3	573.2	575.7	576.7	577.9	578.5	579.5	578.8	579.2
20°	558.8	561.0	564.1	566.9	568.5	570.7	572.3	573.2	573.8	573.2	573.5
22.5°	547.8	551.0	555.0	557.2	560.4	562.2	562.6	564.8	566.3	564.8	565.4
25°	535.0	538.1	541.3	546.0	548.8	551.0	553.2	553.5	555.0	554.7	554.4
27.5°	513.7	517.8	523.1	526.9	530.6	534.1	536.6	537.2	538.8	538.1	538.4
30°	484.6	489.0	494.0	499.9	505.2	508.7	511.8	514.0	515.6	514.6	514.3
32.5°	443.2	447.6	452.9	458.9	465.2	470.2	473.9	476.7	478.6	478.0	476.4
35°	395.9	397.2	400.6	405.3	410.6	416.0	419.4	422.5	424.7	425.4	425.4
37.5°	347.4	343.3	340.8	340.8	343.9	346.1	349.3	351.1	354.6	355.8	356.8
40°	300.4	291.0	282.2	275.6	271.3	270.9	270.9	271.9	275.0	279.1	282.8
42.5°	258.4	243.4	229.9	217.7	208.9	203.9	201.7	202.0	204.5	208.3	214.6
45°	224.9	206.1	189.2	174.5	162.6	154.7	151.0	150.7	152.5	156.9	163.8
47.5°	198.9	178.9	159.7	142.8	130.0	121.5	117.1	115.9	117.1	121.2	129.4
50°	177.3	156.6	136.9	119.3	105.6	96.8	92.7	91.2	92.7	96.2	104.3
52.5°	157.2	135.9	117.5	100.5	85.8	78.3	73.9	73.0	73.9	78.0	84.6
55°	134.1	115.9	97.7	80.8	68.0	60.5	57.0	56.1	57.0	60.8	67.7
57.5°	111.2	95.5	79.6	64.2	53.3	46.7	43.5	42.3	44.5	47.0	55.1
60°	89.9	77.4	63.9	50.4	41.3	35.4	32.9	32.6	33.2	36.3	42.0
62.5°	70.5	60.1	49.5	38.5	31.0	28.5	25.4	25.1	25.7	27.6	32.0
65°	50.7	44.2	36.0	28.2	22.2	18.8	17.5	17.9	18.5	19.7	23.8
67.5°	35.4	30.7	25.1	19.7	15.4	13.8	12.5	12.2	12.5	14.7	16.9
70°	23.8	21.0	16.9	15.0	10.7	8.5	8.8	7.8	9.1	9.1	11.0
72.5°	15.7	13.8	11.3	8.8	7.5	6.0	6.0	5.6	6.3	6.6	8.1
75°	8.1	6.3	6.3	4.4	3.1	1.6	2.8	2.5	2.2	2.5	3.1
77.5°	5.6	4.7	4.4	3.4	3.1	2.5	2.5	2.5	2.5	2.8	3.1
80°	3.4	3.4	2.5	2.2	1.9	1.6	1.9	1.9	1.9	1.9	2.2
82.5°	2.2	1.9	1.9	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.9
85°	1.9	1.2	1.2	0.9	1.2	2.2	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	1.6	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°	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5
2.5°	584.5	584.8	584.8	584.5	584.5	583.9	585.1	584.2	584.5	585.7	584.8
5°	585.1	585.4	585.4	585.1	585.1	585.1	585.4	585.4	585.1	584.8	585.4
7.5°	586.4	586.1	586.1	585.4	585.4	584.8	585.4	584.5	585.1	584.5	585.4
10°	584.8	585.1	584.8	584.5	584.5	584.2	584.2	583.2	583.5	582.6	583.2
12.5°	583.9	583.5	583.5	582.9	582.3	581.7	581.4	580.4	580.4	578.2	579.2
15°	581.4	581.7	580.7	579.5	578.8	577.3	576.7	575.4	574.2	572.6	572.9
17.5°	579.2	578.2	577.0	575.7	573.2	572.0	570.7	568.8	568.2	566.3	565.7
20°	572.6	572.0	570.4	568.2	566.6	563.8	562.6	560.7	559.1	557.2	556.3
22.5°	564.1	563.5	561.6	559.4	556.9	555.7	554.4	551.0	549.4	547.5	547.2
25°	553.5	552.5	550.7	548.2	546.9	543.5	542.2	539.7	539.1	537.2	536.9
27.5°	537.2	535.9	533.7	530.6	528.4	526.2	525.0	523.1	522.5	520.6	520.3
30°	512.8	511.2	506.8	505.6	501.8	499.6	499.6	497.1	497.4	496.2	496.2
32.5°	474.2	471.7	468.3	465.8	463.3	462.0	462.0	461.1	461.7	461.7	462.3
35°	423.2	419.7	417.8	416.3	416.3	417.5	421.3	422.2	424.1	425.7	426.9
37.5°	357.7	357.4	359.6	361.5	366.2	371.5	378.1	383.7	389.0	392.8	396.5
40°	286.9	294.8	301.0	309.8	317.0	327.3	339.2	348.9	358.0	364.6	371.5
42.5°	224.0	234.0	247.1	260.0	272.8	286.9	302.6	316.1	328.0	337.0	344.2
45°	174.5	188.2	204.2	220.5	237.1	254.7	270.9	284.7	297.3	306.7	313.9
47.5°	140.6	155.7	173.8	191.7	210.5	229.0	247.1	259.0	269.4	276.9	283.5
50°	116.2	132.2	151.3	171.6	190.4	208.9	224.6	236.2	244.6	251.2	255.3
52.5°	97.1	114.0	134.4	154.7	173.5	190.4	204.5	213.3	220.2	224.9	228.7
55°	80.2	96.5	115.6	134.7	153.2	169.1	180.7	187.3	192.6	195.5	197.6
57.5°	65.5	80.5	98.0	115.6	131.6	144.7	153.8	160.4	162.9	165.1	164.8
60°	51.4	65.5	81.4	96.5	110.3	120.9	127.5	131.2	133.1	134.1	133.4
62.5°	40.4	53.3	65.5	78.6	88.6	97.7	104.0	104.0	104.9	105.2	106.2
65°	30.1	39.8	50.4	60.1	68.3	74.2	77.7	78.6	79.9	79.6	78.9
67.5°	22.2	29.4	37.3	44.5	50.1	53.9	56.4	58.6	58.3	57.6	57.3
70°	15.4	20.0	26.9	31.3	35.4	39.2	39.8	40.1	40.4	40.7	40.1
72.5°	10.7	14.1	17.9	21.6	24.1	25.7	27.3	27.6	27.6	27.6	27.3
75°	5.3	7.2	10.7	12.2	14.4	15.0	16.3	16.3	17.2	16.0	15.7
77.5°	4.7	5.6	7.5	8.8	9.7	10.7	11.0	11.9	11.6	11.0	11.3
80°	2.8	3.4	4.7	5.3	6.6	6.9	7.2	7.5	7.2	7.5	7.5
82.5°	2.2	2.5	3.1	3.1	4.1	4.1	4.4	4.4	4.7	4.7	4.7
85°	1.2	2.2	1.9	3.8	2.5	2.5	3.1	3.8	3.1	3.1	3.8
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.6	1.9	1.9	2.2	1.9
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°	583.5	583.5	583.5	583.5
2.5°	584.5	585.1	584.2	583.9
5°	585.4	585.4	584.8	584.8
7.5°	585.4	585.4	584.5	583.9
10°	582.9	582.9	582.0	581.4
12.5°	578.2	578.2	577.9	577.0
15°	572.3	572.3	571.0	570.1
17.5°	564.1	564.8	563.2	563.2
20°	555.4	555.0	553.8	553.2
22.5°	546.3	545.6	545.3	543.5
25°	536.6	535.9	535.0	534.1
27.5°	520.0	519.7	518.7	517.5
30°	494.6	494.3	493.0	493.0
32.5°	461.7	461.4	460.1	460.5
35°	427.6	428.8	428.2	426.9
37.5°	399.1	400.0	400.6	400.0
40°	375.2	378.1	378.4	379.0
42.5°	349.9	353.6	354.9	355.5
45°	319.5	322.9	325.8	325.1
47.5°	288.5	291.0	293.5	291.6
50°	258.7	260.3	261.2	261.2
52.5°	230.5	230.5	230.2	230.5
55°	198.3	198.3	197.0	197.6
57.5°	164.4	165.1	164.1	162.6
60°	133.1	131.6	130.9	130.0
62.5°	103.7	103.7	101.5	104.3
65°	77.7	76.7	75.8	75.5
67.5°	56.4	56.1	55.1	54.8
70°	39.8	38.5	38.2	37.6
72.5°	26.6	26.6	26.0	26.0
75°	16.3	14.7	14.4	14.7
77.5°	11.3	11.0	11.0	10.7
80°	7.5	7.2	7.8	6.9
82.5°	4.7	5.0	4.7	5.0
85°	3.1	3.8	3.4	3.4
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

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