

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: P244171

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244171
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: LSR8B15D010 EC8B15835 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1623.0 lumens
Efficiency: N/A
Efficacy: 112.7 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

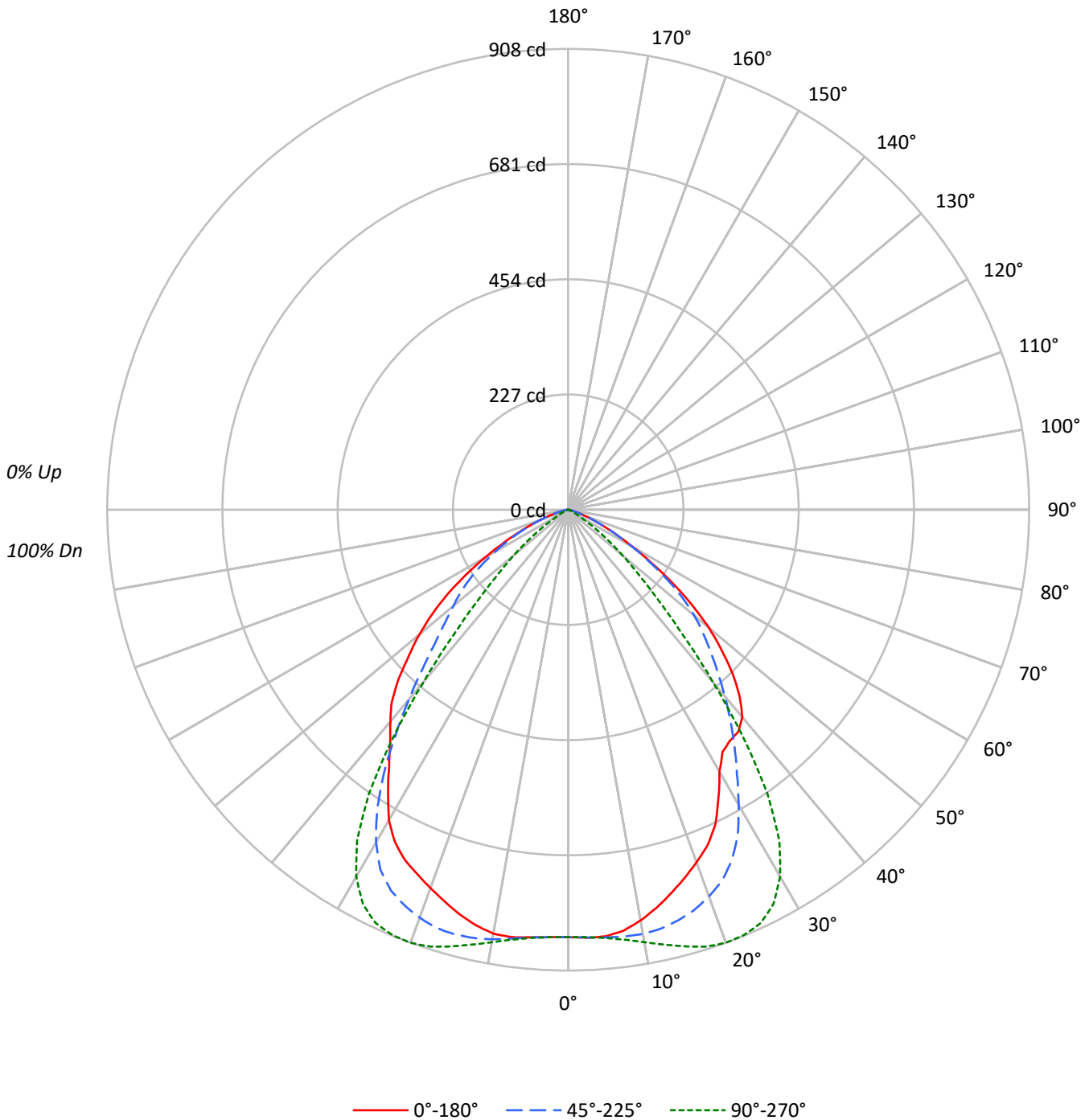
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25964	25964	25964
5°	26116	26215	26187
10°	25732	27091	26559
15°	24981	28435	26350
20°	24257	29800	26032
25°	23324	30564	25909
30°	21229	29724	25142
35°	20911	25756	23132
40°	21480	17865	21930
45°	19995	10798	20618
50°	17342	6668	18374
55°	13311	3484	15591
60°	9066	1406	11767
65°	5640	715	8121
70°	3065	442	4959
75°	1597	214	2931
80°	710	231	1580
85°	460	142	1415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	5.0
10°-20°	239.9	14.8
20°-30°	365.9	22.5
30°-40°	381.9	23.5
40°-50°	286.8	17.7
50°-60°	176.5	10.9
60°-70°	71.8	4.4
70°-80°	16.9	1.0
80°-90°	2.3	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°	686.8	42.3
0°-40°	1068.6	65.8
0°-60°	1531.9	94.4
0°-90°	1623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	842	842	842	842	842	
5°	844	846	847	846	846	80
15°	782	838	891	866	825	220
25°	686	762	898	827	762	312
35°	556	571	684	632	614	351
45°	458	397	248	370	473	350
55°	248	235	65	235	290	223
65°	77	78	10	105	111	81
75°	13	13	2	24	25	16
85°	1	1	0	3	4	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°	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0
2.5°	844.2	842.9	844.2	844.2	844.6	843.7	844.2	844.6	843.7	843.7	843.7
5°	843.7	842.9	843.7	843.3	844.2	844.2	845.1	845.1	846.0	846.0	847.3
7.5°	836.6	834.8	836.6	837.9	838.8	840.6	842.9	844.6	846.4	848.2	850.5
10°	821.8	821.8	823.2	825.9	828.5	831.7	835.7	840.2	844.6	848.7	852.7
12.5°	803.5	802.2	804.9	808.4	812.5	817.4	823.6	830.3	837.5	845.5	851.8
15°	782.5	781.2	784.3	787.9	792.8	800.0	807.6	816.5	826.8	837.5	847.8
17.5°	761.1	760.6	763.7	768.7	772.7	780.3	790.1	800.8	812.5	826.8	840.2
20°	739.2	738.7	741.9	745.9	751.2	758.4	768.2	780.7	794.6	810.7	826.3
22.5°	716.4	716.8	719.5	724.0	728.5	736.0	746.3	758.8	774.0	791.5	808.9
25°	685.5	683.3	686.9	691.4	698.9	705.2	715.0	728.5	744.1	762.4	783.0
27.5°	640.9	640.4	643.5	647.6	654.3	661.9	672.6	686.4	703.0	723.1	743.2
30°	596.2	597.1	598.4	602.4	606.9	614.5	625.2	636.8	652.5	671.7	693.1
32.5°	565.8	565.8	567.6	570.2	573.4	577.4	585.0	593.5	605.6	619.0	634.6
35°	555.5	553.7	555.5	555.9	556.4	557.3	558.6	561.3	565.3	571.1	576.9
37.5°	551.0	549.7	549.7	547.9	545.7	543.0	539.4	535.4	530.9	525.1	520.6
40°	533.6	532.7	531.8	530.0	525.1	519.7	513.9	504.5	494.3	480.0	465.7
42.5°	500.1	499.2	498.7	495.2	490.7	484.4	477.7	467.9	454.9	436.6	416.1
45°	458.5	456.7	455.4	452.3	449.1	443.8	437.5	428.6	415.6	396.8	372.3
47.5°	410.3	409.4	408.9	407.6	404.4	401.3	397.3	390.1	378.5	360.6	335.2
50°	361.5	359.8	360.6	360.2	358.9	356.6	353.9	349.0	340.1	324.0	300.8
52.5°	305.7	305.7	305.2	306.6	307.0	306.6	307.0	301.7	294.1	282.0	262.3
55°	247.6	247.6	248.9	250.7	252.5	252.9	252.5	250.3	244.9	235.1	217.6
57.5°	193.1	192.2	194.8	197.5	199.3	201.1	199.8	198.0	194.8	186.8	173.4
60°	147.0	147.0	148.8	150.6	152.4	154.2	153.7	153.3	150.6	145.2	134.5
62.5°	108.1	108.6	108.6	109.9	111.7	113.5	114.8	113.5	112.2	108.6	101.4
65°	77.3	76.9	77.3	78.7	80.0	81.8	82.7	82.2	80.9	78.2	72.8
67.5°	51.8	51.4	53.2	53.6	54.5	56.3	55.9	56.3	55.9	53.6	49.2
70°	34.0	33.1	34.0	33.5	34.9	35.3	36.2	36.6	36.2	34.9	33.5
72.5°	21.0	20.6	21.0	21.5	21.9	22.3	23.2	23.2	22.8	21.9	20.1
75°	13.4	12.1	12.5	11.6	12.5	12.5	13.4	13.9	13.4	13.4	12.5
77.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.9	8.0	7.6
80°	4.0	4.0	4.5	4.5	4.5	4.9	4.5	4.5	4.5	4.9	3.6
82.5°	3.1	2.7	2.7	2.7	3.1	2.7	2.7	2.7	2.7	2.7	2.7
85°	1.3	1.8	1.3	0.9	1.3	1.3	1.8	1.3	1.3	1.3	1.8
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.9	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°	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0
2.5°	844.2	843.3	843.3	842.9	843.7	842.9	843.3	842.9	842.9	843.7	842.9
5°	847.3	847.8	846.9	846.4	847.8	847.8	847.8	846.9	846.9	847.3	846.9
7.5°	851.8	852.7	853.1	853.6	854.5	854.9	854.9	854.5	854.0	855.4	853.6
10°	856.7	858.1	860.7	862.1	864.3	864.3	865.2	865.2	864.3	865.2	864.8
12.5°	854.9	863.0	867.4	870.6	873.7	876.4	877.3	877.7	877.3	879.1	877.3
15°	858.1	864.8	871.9	877.3	883.1	886.2	887.1	890.7	891.6	892.0	889.3
17.5°	853.1	865.2	872.8	880.8	889.3	895.1	900.5	902.7	903.2	904.1	900.5
20°	842.0	855.4	867.0	878.6	888.4	897.4	901.8	908.1	906.3	909.9	905.0
22.5°	826.8	842.0	856.7	871.9	882.2	892.9	902.3	906.8	909.0	909.0	903.6
25°	802.6	820.5	836.6	852.2	867.9	880.8	891.6	898.3	899.6	899.2	892.9
27.5°	765.1	784.3	803.1	821.0	840.2	855.4	867.9	875.9	878.2	878.2	871.5
30°	713.3	733.8	752.1	773.6	793.3	810.2	827.7	834.8	838.8	838.8	831.2
32.5°	651.6	669.0	686.0	707.0	728.5	747.7	764.2	774.0	778.9	778.5	771.8
35°	584.5	593.0	606.0	621.6	640.9	658.7	674.8	684.2	692.7	692.2	686.0
37.5°	517.5	515.3	516.6	522.4	534.5	547.0	559.5	568.5	575.6	578.7	577.4
40°	451.8	440.2	429.0	425.0	425.9	430.4	437.1	443.8	451.8	455.8	457.6
42.5°	392.8	373.2	353.5	338.8	330.3	327.6	330.7	332.9	337.9	343.7	349.5
45°	345.5	319.1	293.2	270.4	256.1	247.6	245.8	247.6	250.3	256.1	263.7
47.5°	306.6	275.7	246.7	221.2	200.2	189.0	185.9	185.0	187.7	193.1	203.3
50°	272.2	241.3	209.2	179.6	157.8	145.2	140.8	139.0	142.1	146.1	155.5
52.5°	234.6	204.2	171.2	142.6	119.8	106.8	101.9	99.2	101.0	106.4	115.7
55°	194.0	165.8	135.9	106.4	84.5	72.4	66.6	64.8	66.6	72.4	81.8
57.5°	153.3	129.6	104.6	76.9	57.2	45.1	39.3	37.5	42.5	44.7	54.5
60°	119.8	100.6	79.1	56.3	39.3	29.9	24.1	22.8	25.0	29.0	37.1
62.5°	89.8	77.8	60.8	40.2	29.0	19.2	16.1	14.8	16.1	19.2	25.5
65°	65.2	55.9	42.5	29.5	19.7	14.3	10.7	9.8	11.2	13.4	18.8
67.5°	44.7	37.5	29.5	20.6	13.4	8.9	7.6	7.6	8.0	9.8	13.9
70°	29.0	24.6	18.8	13.4	8.9	6.7	5.8	4.9	5.8	7.2	9.4
72.5°	18.3	15.6	12.1	9.4	6.7	4.9	4.0	3.6	4.5	5.4	7.2
75°	11.2	8.5	6.3	4.9	3.6	3.6	3.6	1.8	2.2	3.6	4.5
77.5°	6.7	5.8	4.9	4.0	3.1	1.8	1.8	1.8	2.2	2.7	4.0
80°	3.6	3.1	2.2	2.2	1.8	1.3	1.8	1.3	0.9	2.2	2.7
82.5°	2.2	1.8	1.8	1.8	2.2	0.9	1.3	0.9	1.3	1.8	1.3
85°	1.3	1.3	1.3	0.9	2.2	0.9	0.9	0.4	0.4	0.9	0.9
87.5°	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0
2.5°	843.3	842.9	843.3	842.9	842.9	842.9	843.3	843.3	842.9	842.9	843.7
5°	846.9	846.9	846.9	846.4	846.0	846.0	846.9	846.9	845.5	846.9	846.9
7.5°	854.5	853.1	854.5	852.7	851.8	852.2	852.7	851.8	850.9	851.3	851.3
10°	864.3	863.0	863.0	861.6	860.3	859.4	858.5	856.3	854.0	853.6	851.8
12.5°	875.9	873.7	872.4	869.7	867.4	864.3	861.6	858.1	853.6	850.5	847.3
15°	887.5	884.0	880.8	876.4	871.5	866.1	860.3	854.5	847.3	841.1	835.7
17.5°	896.9	892.0	886.2	879.1	871.9	863.9	855.4	846.9	836.6	828.5	822.3
20°	900.1	892.9	885.3	875.9	866.5	855.4	844.6	833.5	821.8	813.4	806.2
22.5°	896.0	887.5	878.2	868.3	855.8	843.7	831.2	818.3	808.0	796.4	789.7
25°	884.9	874.6	864.3	852.7	840.6	827.2	813.8	800.4	787.9	781.6	773.1
27.5°	862.1	850.9	839.7	827.7	813.8	800.4	786.5	773.6	762.9	754.4	749.5
30°	821.8	808.9	795.9	783.0	770.9	757.0	744.1	733.4	722.6	715.9	711.0
32.5°	760.2	748.6	735.6	723.1	711.9	700.3	689.6	680.2	672.6	668.1	664.5
35°	677.1	665.4	655.6	646.7	637.3	632.4	625.7	620.3	617.2	615.4	614.9
37.5°	572.5	565.8	562.6	560.9	559.1	557.7	558.6	560.9	562.6	565.8	569.3
40°	460.8	466.6	468.4	474.6	480.4	488.0	496.5	506.3	514.4	524.7	531.8
42.5°	358.9	369.6	382.1	395.5	409.8	423.7	440.6	456.3	470.6	483.5	494.7
45°	275.7	292.3	311.0	330.3	349.5	369.6	390.1	409.4	426.3	440.2	451.8
47.5°	215.0	233.3	257.4	281.1	304.3	328.0	350.8	370.9	385.2	398.6	408.9
50°	170.3	191.3	217.6	244.9	270.4	295.4	319.5	338.3	352.6	363.3	370.9
52.5°	131.8	156.9	183.7	212.3	239.5	266.8	289.1	306.6	318.2	327.6	333.4
55°	98.3	122.9	151.5	181.0	208.7	235.1	256.1	271.3	281.6	286.9	290.0
57.5°	71.1	93.4	122.0	151.5	176.5	201.6	218.5	232.4	238.2	241.3	242.7
60°	51.8	72.4	97.9	123.3	147.0	167.1	181.9	191.3	195.7	197.5	197.1
62.5°	38.0	55.9	77.8	99.2	118.4	135.0	146.6	152.8	155.1	156.0	154.6
65°	29.0	42.9	61.7	78.2	93.0	105.0	113.5	117.5	118.9	118.4	117.5
67.5°	21.5	32.2	46.0	58.5	69.3	78.7	83.1	86.7	87.6	86.3	84.9
70°	15.2	23.7	33.5	42.0	50.0	55.4	60.3	60.8	60.8	60.3	59.4
72.5°	10.7	16.5	22.8	28.6	33.5	37.5	39.3	40.7	40.2	39.8	38.9
75°	7.2	10.3	16.5	17.9	22.3	23.7	25.5	25.5	25.9	24.6	24.6
77.5°	4.5	7.2	9.8	11.6	13.4	15.2	16.1	16.1	16.5	16.1	16.1
80°	2.7	4.5	5.4	8.0	8.0	9.4	9.8	10.3	9.4	10.7	9.4
82.5°	1.8	2.7	4.0	4.0	4.9	5.8	5.8	6.3	6.3	5.8	5.8
85°	1.3	1.8	2.2	2.7	2.7	3.1	2.7	2.7	3.1	3.6	3.1
87.5°	0.4	0.9	0.4	0.9	0.9	1.8	1.3	1.3	1.3	1.8	1.8
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°	842.0	842.0	842.0	842.0
2.5°	842.9	843.3	842.9	842.9
5°	846.9	846.4	846.9	846.0
7.5°	850.0	850.0	849.6	849.6
10°	850.0	848.2	848.2	848.2
12.5°	843.3	841.1	839.7	838.8
15°	831.7	827.7	825.9	825.4
17.5°	816.5	812.9	810.7	809.3
20°	799.1	795.5	792.8	793.3
22.5°	783.9	779.8	778.1	777.2
25°	768.7	763.7	762.4	761.5
27.5°	744.1	741.4	740.1	738.7
30°	706.5	705.2	703.0	706.1
32.5°	663.2	661.0	659.2	660.5
35°	615.4	614.0	615.4	614.5
37.5°	571.6	572.9	574.7	575.6
40°	537.2	542.1	543.9	544.8
42.5°	502.8	508.6	512.1	514.4
45°	460.3	466.1	470.1	472.8
47.5°	416.5	421.4	425.4	425.0
50°	376.7	379.4	381.2	383.0
52.5°	336.5	336.5	337.0	337.0
55°	290.9	290.0	289.6	290.0
57.5°	240.9	240.0	239.5	238.2
60°	195.3	192.6	190.8	190.8
62.5°	152.8	149.7	148.4	147.9
65°	114.8	114.4	111.7	111.3
67.5°	83.1	81.3	79.6	80.0
70°	58.5	55.9	55.9	55.0
72.5°	38.0	36.6	36.2	36.2
75°	23.7	23.7	22.8	24.6
77.5°	15.6	15.6	15.2	15.6
80°	9.4	9.4	9.4	8.9
82.5°	5.8	6.3	5.8	5.8
85°	3.1	3.6	2.7	4.0
87.5°	1.8	2.2	1.8	2.2
90°	0.0	0.0	0.0	0.0

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