

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: P244183

Luminaire Tested: **LSR8B15D010 EC8B15850 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244183
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 EC8B15850 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1644.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

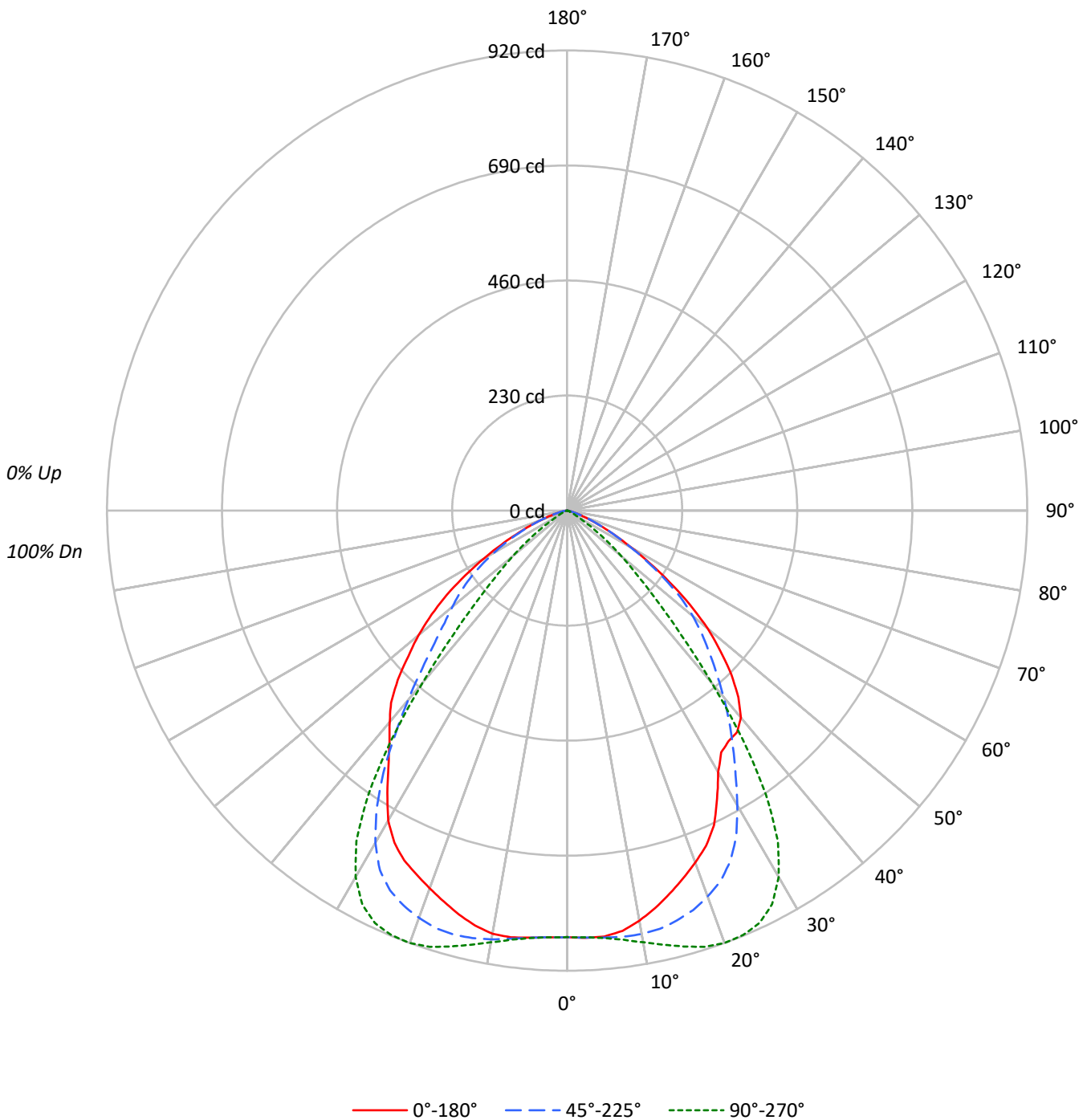
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26297	26297	26297
5°	26456	26552	26525
10°	26067	27442	26903
15°	25303	28802	26692
20°	24569	30187	26367
25°	23626	30959	26246
30°	21503	30109	25466
35°	21182	26091	23430
40°	21757	18094	22212
45°	20256	10937	20884
50°	17568	6755	18613
55°	13483	3527	15795
60°	9183	1425	11921
65°	5713	730	8223
70°	3101	451	5022
75°	1620	214	2967
80°	728	249	1598
85°	495	177	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	5.0
10°-20°	243.0	14.8
20°-30°	370.7	22.5
30°-40°	386.8	23.5
40°-50°	290.5	17.7
50°-60°	178.8	10.9
60°-70°	72.8	4.4
70°-80°	17.1	1.0
80°-90°	2.4	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°	695.7	42.3
0°-40°	1082.5	65.8
0°-60°	1551.7	94.4
0°-90°	1644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	853	853	853	853	853	
5°	855	857	858	857	857	81
15°	793	848	902	877	836	223
25°	694	772	910	838	771	316
35°	563	578	693	640	622	355
45°	464	402	251	374	479	354
55°	251	238	66	238	294	225
65°	78	79	10	106	113	82
75°	14	14	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°	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8
2.5°	855.1	853.8	855.1	855.1	855.6	854.7	855.1	855.6	854.7	854.7	854.7
5°	854.7	853.8	854.7	854.2	855.1	855.1	856.0	856.0	856.9	856.9	858.3
7.5°	847.4	845.6	847.4	848.8	849.7	851.5	853.8	855.6	857.4	859.2	861.5
10°	832.5	832.5	833.8	836.6	839.3	842.4	846.5	851.0	855.6	859.6	863.7
12.5°	813.9	812.6	815.3	818.9	823.0	828.0	834.3	841.1	848.3	856.5	862.8
15°	792.6	791.3	794.5	798.1	803.1	810.3	818.0	827.1	837.5	848.3	858.7
17.5°	770.9	770.5	773.6	778.6	782.7	790.4	800.3	811.2	823.0	837.5	851.0
20°	748.7	748.3	751.5	755.5	761.0	768.2	778.2	790.8	804.9	821.2	837.0
22.5°	725.6	726.1	728.8	733.3	737.9	745.6	756.0	768.7	784.0	801.7	819.4
25°	694.4	692.2	695.8	700.3	708.0	714.3	724.3	737.9	753.7	772.3	793.1
27.5°	649.1	648.7	651.9	655.9	662.7	670.4	681.3	695.3	712.1	732.4	752.8
30°	603.9	604.8	606.1	610.2	614.7	622.4	633.3	645.1	660.9	680.4	702.1
32.5°	573.1	573.1	574.9	577.6	580.8	584.9	592.6	601.2	613.4	627.0	642.8
35°	562.7	560.9	562.7	563.1	563.6	564.5	565.8	568.6	572.6	578.5	584.4
37.5°	558.2	556.8	556.8	555.0	552.7	550.0	546.4	542.3	537.8	531.9	527.4
40°	540.5	539.6	538.7	536.9	531.9	526.5	520.6	511.1	500.7	486.2	471.7
42.5°	506.6	505.6	505.2	501.6	497.0	490.7	483.9	474.0	460.8	442.3	421.4
45°	464.5	462.6	461.3	458.1	454.9	449.5	443.2	434.1	421.0	402.0	377.1
47.5°	415.6	414.7	414.2	412.9	409.7	406.5	402.4	395.2	383.4	365.3	339.5
50°	366.2	364.4	365.3	364.9	363.5	361.2	358.5	353.5	344.5	328.2	304.7
52.5°	309.6	309.6	309.2	310.5	311.0	310.5	311.0	305.6	297.9	285.6	265.7
55°	250.8	250.8	252.1	254.0	255.8	256.2	255.8	253.5	248.1	238.1	220.5
57.5°	195.6	194.7	197.4	200.1	201.9	203.7	202.3	200.5	197.4	189.2	175.6
60°	148.9	148.9	150.7	152.6	154.4	156.2	155.7	155.3	152.6	147.1	136.3
62.5°	109.5	110.0	110.0	111.4	113.2	115.0	116.3	115.0	113.6	110.0	102.8
65°	78.3	77.9	78.3	79.7	81.0	82.8	83.7	83.3	81.9	79.2	73.8
67.5°	52.5	52.1	53.9	54.3	55.2	57.0	56.6	57.0	56.6	54.3	49.8
70°	34.4	33.5	34.4	33.9	35.3	35.8	36.7	37.1	36.7	35.3	33.9
72.5°	21.3	20.8	21.3	21.7	22.2	22.6	23.5	23.5	23.1	22.2	20.4
75°	13.6	12.2	12.7	11.8	12.7	12.7	13.6	14.0	13.6	13.6	12.7
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.6	9.0	8.2	7.7
80°	4.1	4.1	4.5	4.5	4.5	5.0	4.5	4.5	4.5	5.0	3.6
82.5°	3.2	2.7	2.7	2.7	3.2	2.7	2.7	2.7	2.7	2.7	2.7
85°	1.4	1.8	1.4	0.9	1.4	1.4	1.8	1.4	1.4	1.4	1.8
87.5°	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.5	0.5	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°	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8
2.5°	855.1	854.2	854.2	853.8	854.7	853.8	854.2	853.8	853.8	854.7	853.8
5°	858.3	858.7	857.8	857.4	858.7	858.7	858.7	857.8	857.8	858.3	857.8
7.5°	862.8	863.7	864.2	864.6	865.5	866.0	866.0	865.5	865.1	866.4	864.6
10°	867.8	869.2	871.9	873.2	875.5	875.5	876.4	876.4	875.5	876.4	875.9
12.5°	866.0	874.1	878.7	881.8	885.0	887.7	888.6	889.1	888.6	890.4	888.6
15°	869.2	875.9	883.2	888.6	894.5	897.7	898.6	902.2	903.1	903.6	900.8
17.5°	864.2	876.4	884.1	892.2	900.8	906.7	912.2	914.4	914.9	915.8	912.2
20°	852.8	866.4	878.2	890.0	899.9	909.0	913.5	919.9	918.0	921.7	916.7
22.5°	837.5	852.8	867.8	883.2	893.6	904.5	914.0	918.5	920.8	920.8	915.3
25°	813.0	831.1	847.4	863.3	879.1	892.2	903.1	909.9	911.3	910.8	904.5
27.5°	775.0	794.5	813.5	831.6	851.0	866.4	879.1	887.3	889.5	889.5	882.7
30°	722.5	743.3	761.9	783.6	803.5	820.7	838.4	845.6	849.7	849.7	842.0
32.5°	660.0	677.7	694.9	716.1	737.9	757.3	774.1	784.0	789.0	788.6	781.8
35°	592.1	600.7	613.8	629.7	649.1	667.3	683.5	693.1	701.7	701.2	694.9
37.5°	524.2	521.9	523.3	529.2	541.4	554.1	566.8	575.8	583.1	586.2	584.9
40°	457.7	445.9	434.6	430.5	431.4	435.9	442.7	449.5	457.7	461.7	463.5
42.5°	397.9	378.0	358.1	343.1	334.5	331.8	335.0	337.2	342.2	348.1	354.0
45°	349.9	323.2	297.0	273.9	259.4	250.8	249.0	250.8	253.5	259.4	267.1
47.5°	310.5	279.3	249.9	224.1	202.8	191.5	188.3	187.4	190.1	195.6	206.0
50°	275.7	244.4	211.9	182.0	159.8	147.1	142.6	140.8	143.9	148.0	157.5
52.5°	237.7	206.9	173.4	144.4	121.3	108.2	103.2	100.5	102.3	107.7	117.2
55°	196.5	167.9	137.6	107.7	85.6	73.3	67.4	65.6	67.4	73.3	82.8
57.5°	155.3	131.3	105.9	77.9	57.9	45.7	39.8	38.0	43.0	45.3	55.2
60°	121.3	101.9	80.1	57.0	39.8	30.3	24.4	23.1	25.4	29.4	37.6
62.5°	91.0	78.8	61.6	40.7	29.4	19.5	16.3	14.9	16.3	19.5	25.8
65°	66.1	56.6	43.0	29.9	19.9	14.5	10.9	10.0	11.3	13.6	19.0
67.5°	45.3	38.0	29.9	20.8	13.6	9.0	7.7	7.7	8.2	10.0	14.0
70°	29.4	24.9	19.0	13.6	9.0	6.8	5.9	5.0	5.9	7.2	9.5
72.5°	18.6	15.8	12.2	9.5	6.8	5.0	4.1	3.6	4.5	5.4	7.2
75°	11.3	8.6	6.3	5.0	3.6	3.6	3.6	1.8	2.3	3.6	4.5
77.5°	6.8	5.9	5.0	4.1	3.2	1.8	1.8	1.8	2.3	2.7	4.1
80°	3.6	3.2	2.3	2.3	1.8	1.4	1.8	1.4	0.9	2.3	2.7
82.5°	2.3	1.8	1.8	1.8	2.3	0.9	1.4	0.9	1.4	1.8	1.4
85°	1.4	1.4	1.4	0.9	2.3	0.9	0.9	0.5	0.5	0.9	0.9
87.5°	0.0	0.5	0.5	0.0	0.5	0.0	0.5	0.5	0.5	0.5	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8
2.5°	854.2	853.8	854.2	853.8	853.8	853.8	854.2	854.2	853.8	853.8	854.7
5°	857.8	857.8	857.8	857.4	856.9	856.9	857.8	857.8	856.5	857.8	857.8
7.5°	865.5	864.2	865.5	863.7	862.8	863.3	863.7	862.8	861.9	862.4	862.4
10°	875.5	874.1	874.1	872.8	871.4	870.5	869.6	867.3	865.1	864.6	862.8
12.5°	887.3	885.0	883.6	880.9	878.7	875.5	872.8	869.2	864.6	861.5	858.3
15°	899.0	895.4	892.2	887.7	882.7	877.3	871.4	865.5	858.3	852.0	846.5
17.5°	908.5	903.6	897.7	890.4	883.2	875.0	866.4	857.8	847.4	839.3	832.9
20°	911.7	904.5	896.8	887.3	877.7	866.4	855.6	844.3	832.5	823.9	816.6
22.5°	907.6	899.0	889.5	879.6	866.9	854.7	842.0	828.9	818.4	806.7	799.9
25°	896.3	885.9	875.5	863.7	851.5	837.9	824.3	810.8	798.1	791.7	783.1
27.5°	873.2	861.9	850.6	838.4	824.3	810.8	796.7	783.6	772.7	764.1	759.2
30°	832.5	819.4	806.2	793.1	780.9	766.8	753.7	742.8	732.0	725.2	720.2
32.5°	770.0	758.2	745.1	732.4	721.1	709.4	698.5	689.0	681.3	676.8	673.1
35°	685.8	674.0	664.1	655.0	645.5	640.5	633.8	628.3	625.2	623.3	622.9
37.5°	579.9	573.1	569.9	568.1	566.3	565.0	565.8	568.1	569.9	573.1	576.7
40°	466.7	472.6	474.4	480.7	486.6	494.3	502.9	512.9	521.0	531.4	538.7
42.5°	363.5	374.4	387.0	400.6	415.1	429.1	446.3	462.2	476.7	489.8	501.1
45°	279.3	296.1	315.1	334.5	354.0	374.4	395.2	414.7	431.9	445.9	457.7
47.5°	217.7	236.3	260.7	284.7	308.3	332.3	355.4	375.7	390.2	403.8	414.2
50°	172.5	193.7	220.5	248.1	273.9	299.2	323.7	342.7	357.2	368.0	375.7
52.5°	133.5	158.9	186.1	215.0	242.6	270.3	292.9	310.5	322.3	331.8	337.7
55°	99.6	124.5	153.5	183.3	211.4	238.1	259.4	274.8	285.2	290.6	293.8
57.5°	72.0	94.6	123.6	153.5	178.8	204.2	221.4	235.4	241.3	244.4	245.8
60°	52.5	73.3	99.1	124.9	148.9	169.3	184.2	193.7	198.3	200.1	199.6
62.5°	38.5	56.6	78.8	100.5	120.0	136.7	148.5	154.8	157.1	158.0	156.6
65°	29.4	43.5	62.5	79.2	94.2	106.4	115.0	119.1	120.4	120.0	119.1
67.5°	21.7	32.6	46.6	59.3	70.2	79.7	84.2	87.8	88.7	87.4	86.0
70°	15.4	24.0	33.9	42.6	50.7	56.1	61.1	61.6	61.6	61.1	60.2
72.5°	10.9	16.7	23.1	29.0	33.9	38.0	39.8	41.2	40.7	40.3	39.4
75°	7.2	10.4	16.7	18.1	22.6	24.0	25.8	25.8	26.3	24.9	24.9
77.5°	4.5	7.2	10.0	11.8	13.6	15.4	16.3	16.3	16.7	16.3	16.3
80°	2.7	4.5	5.4	8.2	8.2	9.5	10.0	10.4	9.5	10.9	9.5
82.5°	1.8	2.7	4.1	4.1	5.0	5.9	5.9	6.3	6.3	5.9	5.9
85°	1.4	1.8	2.3	2.7	2.7	3.2	2.7	2.7	3.2	3.6	3.2
87.5°	0.5	0.9	0.5	0.9	0.9	1.8	1.4	1.4	1.4	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°	852.8	852.8	852.8	852.8
2.5°	853.8	854.2	853.8	853.8
5°	857.8	857.4	857.8	856.9
7.5°	861.0	861.0	860.5	860.5
10°	861.0	859.2	859.2	859.2
12.5°	854.2	852.0	850.6	849.7
15°	842.4	838.4	836.6	836.1
17.5°	827.1	823.4	821.2	819.8
20°	809.4	805.8	803.1	803.5
22.5°	794.0	789.9	788.1	787.2
25°	778.6	773.6	772.3	771.4
27.5°	753.7	751.0	749.6	748.3
30°	715.7	714.3	712.1	715.2
32.5°	671.8	669.5	667.7	669.1
35°	623.3	622.0	623.3	622.4
37.5°	579.0	580.3	582.2	583.1
40°	544.1	549.1	550.9	551.8
42.5°	509.3	515.2	518.8	521.0
45°	466.3	472.1	476.2	478.9
47.5°	421.9	426.9	430.9	430.5
50°	381.6	384.3	386.1	388.0
52.5°	340.9	340.9	341.3	341.3
55°	294.7	293.8	293.3	293.8
57.5°	244.0	243.1	242.6	241.3
60°	197.8	195.1	193.3	193.3
62.5°	154.8	151.6	150.3	149.8
65°	116.3	115.9	113.2	112.7
67.5°	84.2	82.4	80.6	81.0
70°	59.3	56.6	56.6	55.7
72.5°	38.5	37.1	36.7	36.7
75°	24.0	24.0	23.1	24.9
77.5°	15.8	15.8	15.4	15.8
80°	9.5	9.5	9.5	9.0
82.5°	5.9	6.3	5.9	5.9
85°	3.2	3.6	2.7	4.1
87.5°	1.8	2.3	1.8	2.3
90°	0.0	0.0	0.0	0.0

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