

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: P244597

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244597
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: LSR8B15D010 EC8B15830 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1506.0 lumens
Efficiency: N/A
Efficacy: 104.6 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

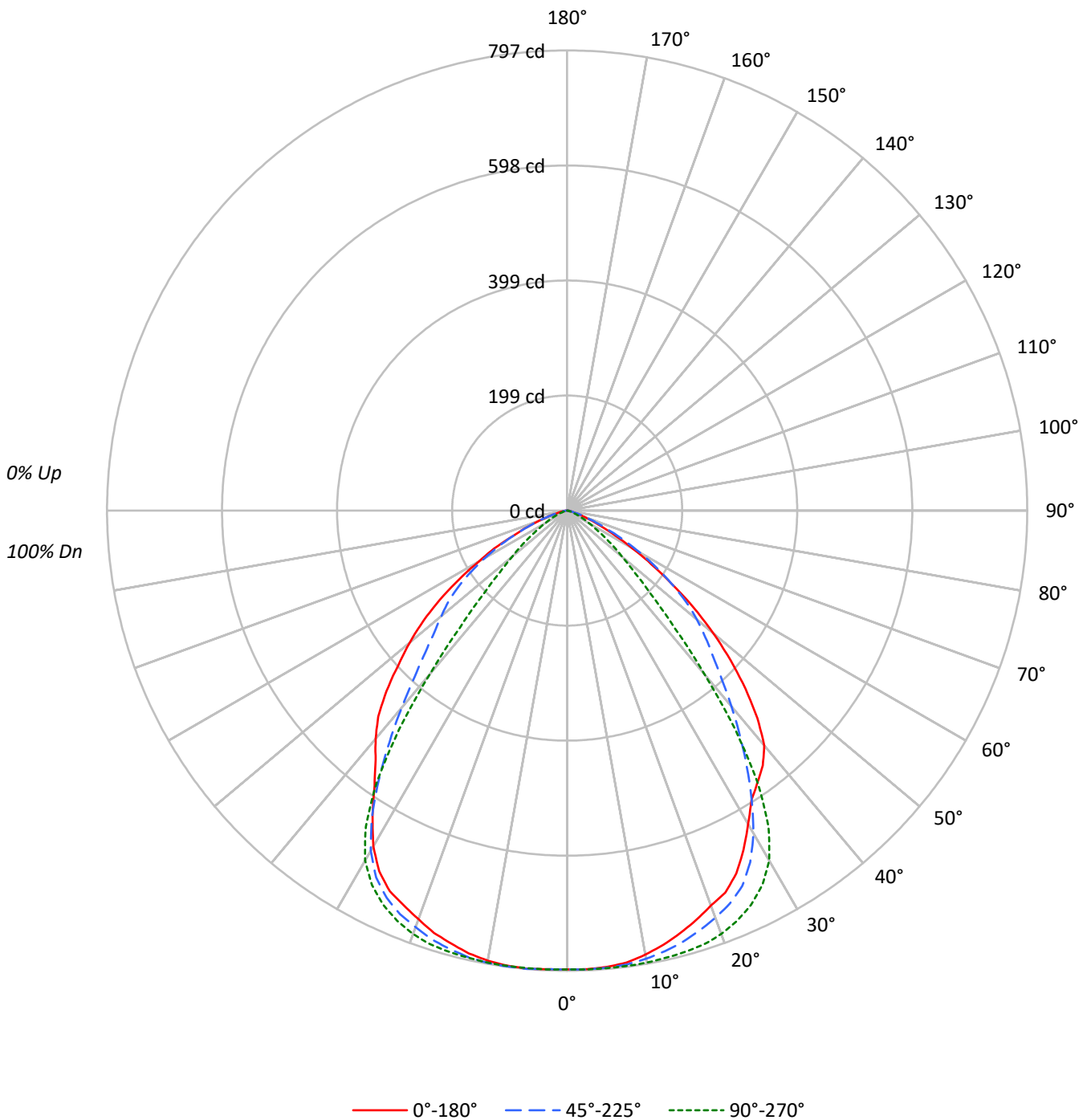
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24503	24503	24503
5°	24556	24624	24649
10°	24452	24893	24787
15°	24183	25258	24783
20°	23893	25612	24716
25°	23582	25644	24742
30°	22311	24921	23903
35°	21642	21660	21883
40°	21375	14902	20775
45°	19048	8949	19306
50°	15836	5953	17064
55°	11876	4107	14467
60°	8048	2738	10916
65°	4852	1773	7501
70°	2696	965	4616
75°	1215	405	2383
80°	1065	462	1669
85°	1203	601	1663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	5.0
10°-20°	220.2	14.6
20°-30°	334.3	22.2
30°-40°	351.1	23.3
40°-50°	263.2	17.5
50°-60°	168.9	11.2
60°-70°	72.3	4.8
70°-80°	17.1	1.1
80°-90°	3.2	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°	630.3	41.9
0°-40°	981.4	65.2
0°-60°	1413.5	93.9
0°-90°	1506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1506.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	795	795	795	795	795	
5°	793	795	796	797	796	75
15°	758	773	791	786	776	214
25°	693	717	754	740	727	317
35°	575	543	575	568	581	361
45°	437	357	205	347	443	334
55°	221	221	76	230	269	200
65°	66	78	24	101	103	71
75°	10	12	3	20	20	15
85°	3	2	2	3	5	4
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°	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6
2.5°	795.0	795.9	795.5	795.5	795.0	795.5	795.5	796.3	796.3	795.5	795.0
5°	793.3	794.2	794.2	793.3	793.3	795.5	794.2	795.0	795.0	794.6	794.6
7.5°	789.5	789.5	791.2	789.9	789.9	791.2	790.8	791.6	792.5	792.9	792.9
10°	780.9	781.8	782.2	782.2	782.7	783.9	784.8	786.5	787.3	788.2	788.6
12.5°	770.3	771.6	772.0	771.6	772.8	774.5	776.7	778.8	780.1	781.8	783.1
15°	757.5	757.5	758.3	759.6	760.5	763.0	765.2	767.7	771.1	773.3	775.4
17.5°	743.4	744.3	745.5	745.5	747.3	751.5	752.8	756.6	760.5	762.6	766.9
20°	728.1	728.9	730.2	731.0	733.2	736.6	739.1	742.6	746.8	750.7	754.9
22.5°	716.1	714.4	715.3	716.1	718.3	721.2	724.2	728.5	732.8	736.6	740.9
25°	693.1	693.5	694.8	695.6	698.2	700.8	704.2	709.3	713.1	717.4	722.1
27.5°	662.0	662.4	664.5	664.5	666.6	670.9	673.0	677.3	682.4	686.7	692.2
30°	626.6	627.4	627.4	629.1	630.4	632.5	634.7	638.9	641.5	645.3	653.0
32.5°	594.1	595.0	594.6	594.1	592.9	592.4	592.0	592.9	593.7	595.0	598.0
35°	574.9	572.8	571.1	568.1	564.7	560.4	556.6	551.5	546.8	542.9	538.7
37.5°	556.6	556.2	553.6	549.3	542.5	534.9	525.9	514.8	503.7	491.8	480.3
40°	531.0	529.7	527.6	521.6	513.9	504.6	492.6	479.0	461.1	442.7	424.0
42.5°	487.5	487.9	485.4	480.7	473.4	464.5	452.1	437.2	418.0	396.2	371.9
45°	436.8	436.8	435.9	432.1	426.9	419.7	410.3	397.9	379.2	357.0	331.0
47.5°	383.9	384.3	383.0	382.2	380.0	375.3	368.5	359.1	345.9	324.6	298.6
50°	330.1	330.1	332.3	331.8	331.8	330.1	327.1	321.6	310.1	293.0	268.7
52.5°	276.4	277.2	278.5	280.2	282.3	285.8	282.3	279.8	272.5	259.3	238.4
55°	220.9	221.8	223.9	226.9	229.5	232.9	233.7	233.7	229.9	220.9	205.2
57.5°	173.6	172.3	174.0	176.6	180.0	183.4	186.0	188.9	188.5	182.5	169.8
60°	130.5	130.9	132.2	134.8	137.3	140.3	143.7	146.3	147.6	144.6	136.5
62.5°	95.1	95.1	96.8	99.4	100.7	104.9	107.1	108.3	109.6	109.2	104.1
65°	66.5	67.4	68.2	69.5	70.8	73.4	74.6	77.2	78.1	78.5	74.6
67.5°	46.9	45.6	46.5	47.3	48.6	50.3	52.9	52.9	54.2	54.2	51.6
70°	29.9	29.9	30.3	31.6	32.4	32.8	33.7	34.5	35.8	35.4	35.4
72.5°	20.0	19.6	20.0	20.5	20.9	22.2	22.2	22.6	23.5	23.9	22.2
75°	10.2	10.7	11.5	11.1	12.4	11.5	11.9	13.2	12.8	11.9	11.9
77.5°	8.5	8.5	8.5	8.1	9.0	9.0	8.5	9.4	9.0	9.0	8.5
80°	6.0	6.4	6.0	5.5	6.0	5.5	5.5	5.5	5.5	5.5	5.1
82.5°	4.7	3.8	4.3	3.8	4.3	4.3	3.8	3.4	3.4	3.8	3.4
85°	3.4	2.6	3.0	3.0	2.6	2.6	2.6	2.6	2.6	2.1	2.1
87.5°	2.1	1.3	1.3	1.3	1.7	1.7	1.7	1.3	1.7	1.7	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6
2.5°	795.9	795.5	796.3	795.9	795.9	795.5	795.9	795.5	796.3	794.6	795.0
5°	795.9	795.0	795.5	795.9	796.3	795.5	795.5	795.5	796.3	795.5	795.9
7.5°	794.2	793.7	795.0	795.9	795.5	795.0	795.9	795.5	796.3	795.9	796.7
10°	790.8	791.2	792.0	793.3	793.7	794.2	795.0	795.0	796.3	794.6	795.5
12.5°	785.6	787.3	789.5	790.3	792.0	792.0	792.9	793.3	794.2	793.7	795.0
15°	779.2	781.4	783.9	786.1	788.2	789.5	790.8	791.2	792.5	791.2	791.6
17.5°	771.6	774.1	778.0	780.5	783.9	785.2	786.9	787.8	789.1	788.2	788.6
20°	760.9	763.9	768.2	772.0	774.1	777.1	779.2	780.5	781.4	780.5	780.9
22.5°	746.0	750.2	755.8	758.8	763.0	765.6	766.0	769.0	771.1	769.0	769.9
25°	728.5	732.8	737.0	743.4	747.3	750.2	753.2	753.7	755.8	755.4	754.9
27.5°	699.5	705.0	712.3	717.4	722.5	727.2	730.6	731.5	733.6	732.8	733.2
30°	659.8	665.8	672.6	680.7	688.0	692.7	696.9	699.9	702.0	700.8	700.3
32.5°	603.5	609.5	616.7	624.8	633.4	640.2	645.3	649.2	651.7	650.9	648.7
35°	539.1	540.8	545.5	551.9	559.2	566.4	571.1	575.4	578.3	579.2	579.2
37.5°	473.0	467.5	464.1	464.1	468.3	471.3	475.6	478.1	482.8	484.5	485.8
40°	409.0	396.2	384.3	375.3	369.4	368.9	368.9	370.2	374.5	380.0	385.1
42.5°	351.9	331.4	313.1	296.4	284.5	277.7	274.7	275.1	278.5	283.6	292.2
45°	306.2	280.6	257.6	237.6	221.4	210.7	205.6	205.2	207.7	213.7	223.1
47.5°	270.8	243.5	217.5	194.5	177.0	165.5	159.5	157.8	159.5	165.1	176.2
50°	241.4	213.3	186.4	162.5	143.7	131.8	126.2	124.1	126.2	130.9	142.0
52.5°	214.1	185.1	159.9	136.9	116.9	106.6	100.7	99.4	100.7	106.2	115.2
55°	182.5	157.8	133.1	110.0	92.6	82.3	77.6	76.4	77.6	82.7	92.1
57.5°	151.4	130.1	108.3	87.4	72.5	63.5	59.3	57.6	60.6	64.0	75.1
60°	122.4	105.4	87.0	68.7	56.3	48.2	44.8	44.4	45.2	49.5	57.1
62.5°	96.0	81.9	67.4	52.5	42.2	38.8	34.5	34.1	35.0	37.5	43.5
65°	69.1	60.1	49.0	38.4	30.3	25.6	23.9	24.3	25.2	26.9	32.4
67.5°	48.2	41.8	34.1	26.9	20.9	18.8	17.1	16.6	17.1	20.0	23.0
70°	32.4	28.6	23.0	20.5	14.5	11.5	11.9	10.7	12.4	12.4	14.9
72.5°	21.3	18.8	15.4	11.9	10.2	8.1	8.1	7.7	8.5	9.0	11.1
75°	11.1	8.5	8.5	6.0	4.3	2.1	3.8	3.4	3.0	3.4	4.3
77.5°	7.7	6.4	6.0	4.7	4.3	3.4	3.4	3.4	3.4	3.8	4.3
80°	4.7	4.7	3.4	3.0	2.6	2.1	2.6	2.6	2.6	2.6	3.0
82.5°	3.0	2.6	2.6	2.1	2.1	1.7	1.7	1.7	1.7	1.7	2.6
85°	2.6	1.7	1.7	1.3	1.7	3.0	1.3	1.7	1.7	1.7	1.3
87.5°	0.9	1.3	1.3	1.3	0.9	0.4	0.9	1.3	1.3	2.1	1.7
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°	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6
2.5°	795.9	796.3	796.3	795.9	795.9	795.0	796.7	795.5	795.9	797.6	796.3
5°	796.7	797.2	797.2	796.7	796.7	796.7	797.2	797.2	796.7	796.3	797.2
7.5°	798.4	798.0	798.0	797.2	797.2	796.3	797.2	795.9	796.7	795.9	797.2
10°	796.3	796.7	796.3	795.9	795.9	795.5	795.5	794.2	794.6	793.3	794.2
12.5°	795.0	794.6	794.6	793.7	792.9	792.0	791.6	790.3	790.3	787.3	788.6
15°	791.6	792.0	790.8	789.1	788.2	786.1	785.2	783.5	781.8	779.7	780.1
17.5°	788.6	787.3	785.6	783.9	780.5	778.8	777.1	774.5	773.7	771.1	770.3
20°	779.7	778.8	776.7	773.7	771.6	767.7	766.0	763.5	761.3	758.8	757.5
22.5°	768.2	767.3	764.7	761.8	758.3	756.6	754.9	750.2	748.1	745.5	745.1
25°	753.7	752.4	749.8	746.4	744.7	740.0	738.3	734.9	734.0	731.5	731.0
27.5°	731.5	729.8	726.8	722.5	719.5	716.5	714.8	712.3	711.4	708.9	708.4
30°	698.2	696.1	690.1	688.4	683.3	680.3	680.3	676.9	677.3	675.6	675.6
32.5°	645.7	642.3	637.6	634.2	630.8	629.1	629.1	627.8	628.7	628.7	629.5
35°	576.2	571.5	569.0	566.8	566.8	568.5	573.7	574.9	577.5	579.6	581.3
37.5°	487.1	486.7	489.6	492.2	498.6	505.8	514.8	522.5	529.7	534.9	540.0
40°	390.7	401.4	409.9	421.8	431.6	445.7	461.9	475.1	487.5	496.5	505.8
42.5°	305.0	318.6	336.5	354.0	371.5	390.7	412.0	430.4	446.6	458.9	468.7
45°	237.6	256.3	278.1	300.3	322.9	346.8	368.9	387.7	404.8	417.6	427.4
47.5°	191.5	212.0	236.7	261.0	286.6	311.8	336.5	352.7	366.8	377.0	386.0
50°	158.2	180.0	206.0	233.7	259.3	284.5	305.8	321.6	333.1	342.1	347.6
52.5°	132.2	155.2	183.0	210.7	236.3	259.3	278.5	290.5	299.8	306.2	311.4
55°	109.2	131.4	157.4	183.4	208.6	230.3	246.1	255.1	262.3	266.1	269.1
57.5°	89.1	109.6	133.5	157.4	179.1	197.1	209.4	218.4	221.8	224.8	224.3
60°	70.0	89.1	110.9	131.4	150.1	164.6	173.6	178.7	181.3	182.5	181.7
62.5°	55.0	72.5	89.1	107.1	120.7	133.1	141.6	141.6	142.9	143.3	144.6
65°	40.9	54.2	68.7	81.9	93.0	101.1	105.8	107.1	108.8	108.3	107.5
67.5°	30.3	40.1	50.8	60.6	68.2	73.4	76.8	79.8	79.3	78.5	78.1
70°	20.9	27.3	36.7	42.7	48.2	53.3	54.2	54.6	55.0	55.4	54.6
72.5°	14.5	19.2	24.3	29.4	32.8	35.0	37.1	37.5	37.5	37.5	37.1
75°	7.3	9.8	14.5	16.6	19.6	20.5	22.2	22.2	23.5	21.7	21.3
77.5°	6.4	7.7	10.2	11.9	13.2	14.5	14.9	16.2	15.8	14.9	15.4
80°	3.8	4.7	6.4	7.3	9.0	9.4	9.8	10.2	9.8	10.2	10.2
82.5°	3.0	3.4	4.3	4.3	5.5	5.5	6.0	6.0	6.4	6.4	6.4
85°	1.7	3.0	2.6	5.1	3.4	3.4	4.3	5.1	4.3	4.3	5.1
87.5°	1.7	1.7	1.3	1.7	1.7	1.7	2.1	2.6	2.6	3.0	2.6
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):

	165°	170°	175°	180°
0°	794.6	794.6	794.6	794.6
2.5°	795.9	796.7	795.5	795.0
5°	797.2	797.2	796.3	796.3
7.5°	797.2	797.2	795.9	795.0
10°	793.7	793.7	792.5	791.6
12.5°	787.3	787.3	786.9	785.6
15°	779.2	779.2	777.5	776.3
17.5°	768.2	769.0	766.9	766.9
20°	756.2	755.8	754.1	753.2
22.5°	743.8	743.0	742.6	740.0
25°	730.6	729.8	728.5	727.2
27.5°	708.0	707.6	706.3	704.6
30°	673.5	673.0	671.3	671.3
32.5°	628.7	628.3	626.6	627.0
35°	582.2	583.9	583.0	581.3
37.5°	543.4	544.7	545.5	544.7
40°	511.0	514.8	515.2	516.1
42.5°	476.4	481.5	483.2	484.1
45°	435.0	439.7	443.6	442.7
47.5°	392.8	396.2	399.6	397.1
50°	352.3	354.4	355.7	355.7
52.5°	313.9	313.9	313.5	313.9
55°	270.0	270.0	268.3	269.1
57.5°	223.9	224.8	223.5	221.4
60°	181.3	179.1	178.3	177.0
62.5°	141.2	141.2	138.2	142.0
65°	105.8	104.5	103.2	102.8
67.5°	76.8	76.4	75.1	74.6
70°	54.2	52.5	52.0	51.2
72.5°	36.3	36.3	35.4	35.4
75°	22.2	20.0	19.6	20.0
77.5°	15.4	14.9	14.9	14.5
80°	10.2	9.8	10.7	9.4
82.5°	6.4	6.8	6.4	6.8
85°	4.3	5.1	4.7	4.7
87.5°	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0

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