

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: P246036

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246036
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 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1087.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

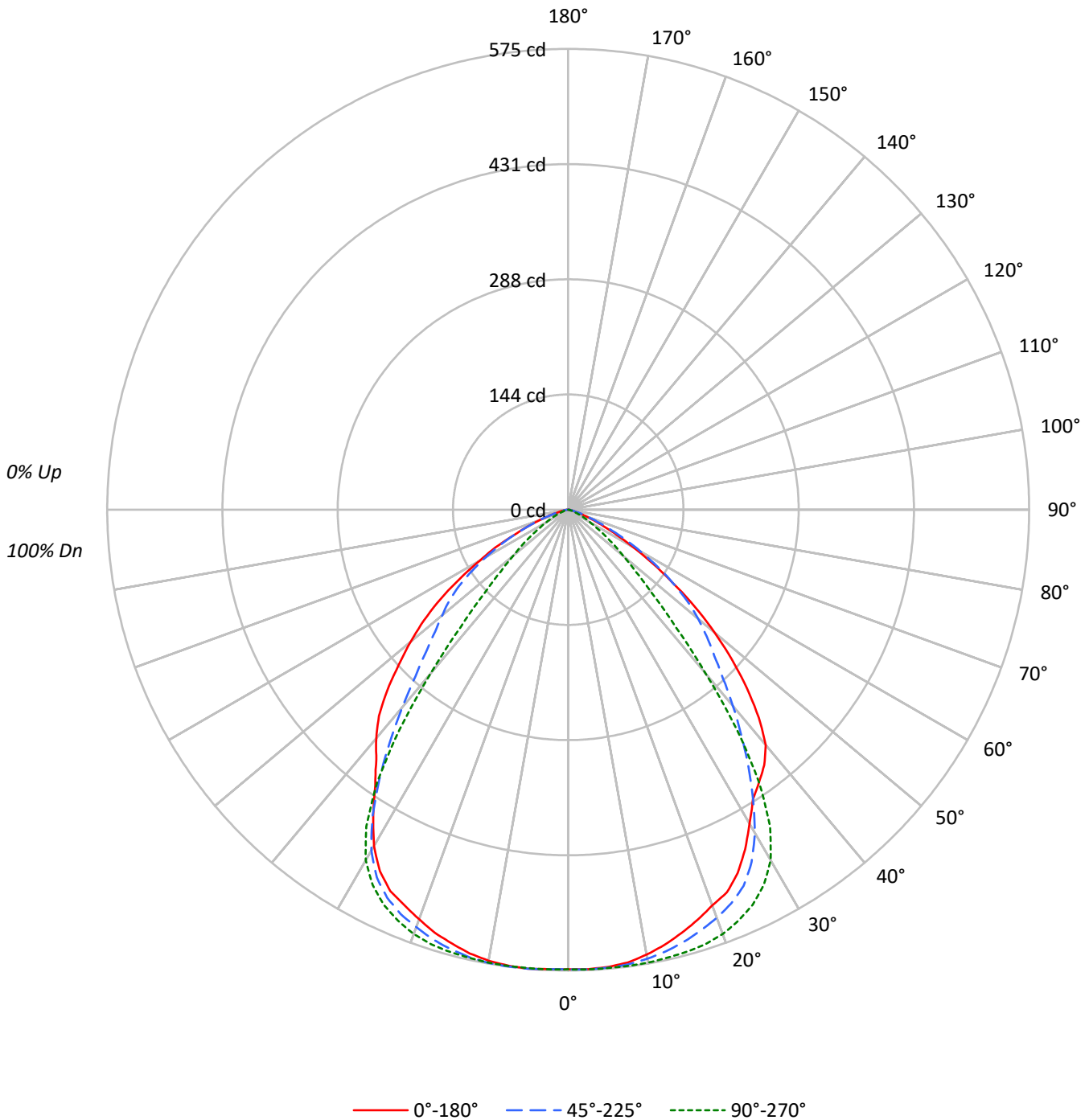
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17685	17685	17685
5°	17724	17771	17792
10°	17651	17967	17892
15°	17453	18232	17887
20°	17244	18488	17842
25°	17022	18509	17859
30°	16101	17989	17255
35°	15622	15634	15796
40°	15429	10756	14995
45°	13746	6459	13933
50°	11432	4298	12315
55°	8575	2962	10446
60°	5810	1974	7882
65°	3502	1284	5414
70°	1947	694	3327
75°	882	298	1728
80°	764	320	1208
85°	885	425	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	5.0
10°-20°	159.0	14.6
20°-30°	241.3	22.2
30°-40°	253.4	23.3
40°-50°	190.0	17.5
50°-60°	121.9	11.2
60°-70°	52.1	4.8
70°-80°	12.3	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°	455.0	41.9
0°-40°	708.4	65.2
0°-60°	1020.2	93.9
0°-90°	1087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1087.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	574	574	574	574	574	
5°	573	574	574	575	575	54
15°	547	558	571	567	560	154
25°	500	518	544	534	525	229
35°	415	392	415	410	420	260
45°	315	258	148	250	320	241
55°	160	160	55	166	194	145
65°	48	57	18	73	74	51
75°	7	9	2	15	14	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°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
2.5°	573.8	574.4	574.1	574.1	573.8	574.1	574.1	574.8	574.8	574.1	573.8
5°	572.6	573.2	573.2	572.6	572.6	574.1	573.2	573.8	573.8	573.5	573.5
7.5°	569.8	569.8	571.1	570.1	570.1	571.1	570.8	571.4	572.0	572.3	572.3
10°	563.7	564.3	564.6	564.6	564.9	565.8	566.4	567.7	568.3	568.9	569.2
12.5°	556.0	556.9	557.2	556.9	557.8	559.1	560.6	562.1	563.1	564.3	565.2
15°	546.7	546.7	547.4	548.3	548.9	550.7	552.3	554.1	556.6	558.1	559.7
17.5°	536.6	537.2	538.1	538.1	539.4	542.4	543.4	546.1	548.9	550.4	553.5
20°	525.5	526.1	527.0	527.7	529.2	531.7	533.5	536.0	539.0	541.8	544.9
22.5°	516.9	515.6	516.3	516.9	518.4	520.6	522.7	525.8	528.9	531.7	534.7
25°	500.3	500.6	501.5	502.1	504.0	505.8	508.3	512.0	514.7	517.8	521.2
27.5°	477.8	478.1	479.6	479.6	481.2	484.2	485.8	488.9	492.6	495.6	499.6
30°	452.2	452.8	452.8	454.1	455.0	456.5	458.1	461.2	463.0	465.8	471.3
32.5°	428.8	429.4	429.1	428.8	427.9	427.6	427.3	427.9	428.5	429.4	431.6
35°	415.0	413.4	412.2	410.1	407.6	404.5	401.7	398.1	394.7	391.9	388.8
37.5°	401.7	401.4	399.6	396.5	391.6	386.0	379.6	371.6	363.6	354.9	346.6
40°	383.3	382.3	380.8	376.5	371.0	364.2	355.6	345.7	332.8	319.5	306.0
42.5°	351.9	352.2	350.3	346.9	341.7	335.2	326.3	315.5	301.7	286.0	268.4
45°	315.2	315.2	314.6	311.8	308.2	302.9	296.2	287.2	273.7	257.7	238.9
47.5°	277.1	277.4	276.4	275.8	274.3	270.9	266.0	259.2	249.7	234.3	215.5
50°	238.3	238.3	239.8	239.5	239.5	238.3	236.1	232.1	223.8	211.5	193.9
52.5°	199.5	200.1	201.0	202.3	203.8	206.3	203.8	201.9	196.7	187.2	172.1
55°	159.5	160.1	161.6	163.8	165.6	168.1	168.7	168.7	165.9	159.5	148.1
57.5°	125.3	124.4	125.6	127.5	129.9	132.4	134.2	136.4	136.1	131.8	122.5
60°	94.2	94.5	95.4	97.3	99.1	101.3	103.7	105.6	106.5	104.4	98.5
62.5°	68.7	68.7	69.9	71.7	72.7	75.7	77.3	78.2	79.1	78.8	75.1
65°	48.0	48.6	49.3	50.2	51.1	52.9	53.9	55.7	56.3	56.6	53.9
67.5°	33.9	32.9	33.6	34.2	35.1	36.3	38.2	38.2	39.1	39.1	37.2
70°	21.6	21.6	21.9	22.8	23.4	23.7	24.3	24.9	25.9	25.6	25.6
72.5°	14.5	14.2	14.5	14.8	15.1	16.0	16.0	16.3	16.9	17.2	16.0
75°	7.4	7.7	8.3	8.0	8.9	8.3	8.6	9.5	9.2	8.6	8.6
77.5°	6.2	6.2	6.2	5.9	6.5	6.5	6.2	6.8	6.5	6.5	6.2
80°	4.3	4.6	4.3	4.0	4.3	4.0	4.0	4.0	4.0	4.0	3.7
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	1.8	2.2	2.2	1.8	1.8	1.8	1.8	1.8	1.5	1.5
87.5°	1.5	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°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
2.5°	574.4	574.1	574.8	574.4	574.4	574.1	574.4	574.1	574.8	573.5	573.8
5°	574.4	573.8	574.1	574.4	574.8	574.1	574.1	574.1	574.8	574.1	574.4
7.5°	573.2	572.9	573.8	574.4	574.1	573.8	574.4	574.1	574.8	574.4	575.1
10°	570.8	571.1	571.7	572.6	572.9	573.2	573.8	573.8	574.8	573.5	574.1
12.5°	567.1	568.3	569.8	570.4	571.7	571.7	572.3	572.6	573.2	572.9	573.8
15°	562.4	564.0	565.8	567.4	568.9	569.8	570.8	571.1	572.0	571.1	571.4
17.5°	556.9	558.7	561.5	563.4	565.8	566.8	568.0	568.6	569.5	568.9	569.2
20°	549.2	551.4	554.4	557.2	558.7	560.9	562.4	563.4	564.0	563.4	563.7
22.5°	538.4	541.5	545.5	547.7	550.7	552.6	552.9	555.1	556.6	555.1	555.7
25°	525.8	528.9	532.0	536.6	539.4	541.5	543.7	544.0	545.5	545.2	544.9
27.5°	504.9	508.9	514.1	517.8	521.5	524.9	527.3	528.0	529.5	528.9	529.2
30°	476.2	480.6	485.5	491.3	496.6	499.9	503.0	505.2	506.7	505.8	505.5
32.5°	435.6	439.9	445.2	451.0	457.2	462.1	465.8	468.5	470.4	469.8	468.2
35°	389.1	390.4	393.7	398.4	403.6	408.8	412.2	415.3	417.4	418.1	418.1
37.5°	341.4	337.4	334.9	334.9	338.0	340.2	343.3	345.1	348.5	349.7	350.6
40°	295.2	286.0	277.4	270.9	266.6	266.3	266.3	267.2	270.3	274.3	278.0
42.5°	254.0	239.2	226.0	214.0	205.3	200.4	198.3	198.6	201.0	204.7	210.9
45°	221.0	202.6	185.9	171.5	159.8	152.1	148.4	148.1	149.9	154.2	161.0
47.5°	195.5	175.8	157.0	140.4	127.8	119.4	115.1	113.9	115.1	119.1	127.1
50°	174.2	153.9	134.5	117.3	103.7	95.1	91.1	89.6	91.1	94.5	102.5
52.5°	154.5	133.6	115.4	98.8	84.3	77.0	72.7	71.7	72.7	76.7	83.1
55°	131.8	113.9	96.0	79.4	66.8	59.4	56.0	55.1	56.0	59.7	66.5
57.5°	109.3	93.9	78.2	63.1	52.3	45.9	42.8	41.6	43.7	46.2	54.2
60°	88.3	76.0	62.8	49.6	40.6	34.8	32.3	32.0	32.6	35.7	41.2
62.5°	69.3	59.1	48.6	37.9	30.5	28.0	24.9	24.6	25.2	27.1	31.4
65°	49.9	43.4	35.4	27.7	21.9	18.5	17.2	17.6	18.2	19.4	23.4
67.5°	34.8	30.2	24.6	19.4	15.1	13.5	12.3	12.0	12.3	14.5	16.6
70°	23.4	20.6	16.6	14.8	10.5	8.3	8.6	7.7	8.9	8.9	10.8
72.5°	15.4	13.5	11.1	8.6	7.4	5.9	5.9	5.5	6.2	6.5	8.0
75°	8.0	6.2	6.2	4.3	3.1	1.5	2.8	2.5	2.2	2.5	3.1
77.5°	5.5	4.6	4.3	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	1.8	1.5	1.8	1.8	1.8	1.8	2.2
82.5°	2.2	1.8	1.8	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.8
85°	1.8	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	1.5	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°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
2.5°	574.4	574.8	574.8	574.4	574.4	573.8	575.1	574.1	574.4	575.7	574.8
5°	575.1	575.4	575.4	575.1	575.1	575.1	575.4	575.4	575.1	574.8	575.4
7.5°	576.3	576.0	576.0	575.4	575.4	574.8	575.4	574.4	575.1	574.4	575.4
10°	574.8	575.1	574.8	574.4	574.4	574.1	574.1	573.2	573.5	572.6	573.2
12.5°	573.8	573.5	573.5	572.9	572.3	571.7	571.4	570.4	570.4	568.3	569.2
15°	571.4	571.7	570.8	569.5	568.9	567.4	566.8	565.5	564.3	562.8	563.1
17.5°	569.2	568.3	567.1	565.8	563.4	562.1	560.9	559.1	558.4	556.6	556.0
20°	562.8	562.1	560.6	558.4	556.9	554.1	552.9	551.1	549.5	547.7	546.7
22.5°	554.4	553.8	552.0	549.8	547.4	546.1	544.9	541.5	540.0	538.1	537.8
25°	544.0	543.0	541.2	538.7	537.5	534.1	532.9	530.4	529.8	528.0	527.7
27.5°	528.0	526.7	524.6	521.5	519.3	517.2	516.0	514.1	513.5	511.6	511.3
30°	504.0	502.4	498.1	496.9	493.2	491.0	491.0	488.6	488.9	487.6	487.6
32.5°	466.1	463.6	460.2	457.8	455.3	454.1	454.1	453.2	453.8	453.8	454.4
35°	415.9	412.5	410.7	409.1	409.1	410.4	414.1	415.0	416.8	418.4	419.6
37.5°	351.6	351.3	353.4	355.3	359.9	365.1	371.6	377.1	382.3	386.0	389.7
40°	282.0	289.7	295.8	304.5	311.5	321.7	333.4	342.9	351.9	358.3	365.1
42.5°	220.1	230.0	242.9	255.5	268.1	282.0	297.4	310.6	322.3	331.2	338.3
45°	171.5	185.0	200.7	216.7	233.0	250.3	266.3	279.8	292.2	301.4	308.5
47.5°	138.2	153.0	170.9	188.4	206.9	225.0	242.9	254.6	264.7	272.1	278.6
50°	114.2	129.9	148.7	168.7	187.2	205.3	220.7	232.1	240.4	246.9	250.9
52.5°	95.4	112.1	132.1	152.1	170.5	187.2	201.0	209.6	216.4	221.0	224.7
55°	78.8	94.8	113.6	132.4	150.5	166.2	177.6	184.1	189.3	192.1	194.3
57.5°	64.3	79.1	96.4	113.6	129.3	142.2	151.2	157.6	160.1	162.2	161.9
60°	50.5	64.3	80.0	94.8	108.4	118.8	125.3	129.0	130.8	131.8	131.1
62.5°	39.7	52.3	64.3	77.3	87.1	96.0	102.2	102.2	103.1	103.4	104.4
65°	29.6	39.1	49.6	59.1	67.1	73.0	76.3	77.3	78.5	78.2	77.6
67.5°	21.9	28.9	36.6	43.7	49.3	52.9	55.4	57.6	57.3	56.6	56.3
70°	15.1	19.7	26.5	30.8	34.8	38.5	39.1	39.4	39.7	40.0	39.4
72.5°	10.5	13.9	17.6	21.2	23.7	25.2	26.8	27.1	27.1	27.1	26.8
75°	5.2	7.1	10.5	12.0	14.2	14.8	16.0	16.0	16.9	15.7	15.4
77.5°	4.6	5.5	7.4	8.6	9.5	10.5	10.8	11.7	11.4	10.8	11.1
80°	2.8	3.4	4.6	5.2	6.5	6.8	7.1	7.4	7.1	7.4	7.4
82.5°	2.2	2.5	3.1	3.1	4.0	4.0	4.3	4.3	4.6	4.6	4.6
85°	1.2	2.2	1.8	3.7	2.5	2.5	3.1	3.7	3.1	3.1	3.7
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.5	1.8	1.8	2.2	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°	573.5	573.5	573.5	573.5
2.5°	574.4	575.1	574.1	573.8
5°	575.4	575.4	574.8	574.8
7.5°	575.4	575.4	574.4	573.8
10°	572.9	572.9	572.0	571.4
12.5°	568.3	568.3	568.0	567.1
15°	562.4	562.4	561.2	560.3
17.5°	554.4	555.1	553.5	553.5
20°	545.8	545.5	544.3	543.7
22.5°	536.9	536.3	536.0	534.1
25°	527.3	526.7	525.8	524.9
27.5°	511.0	510.7	509.8	508.6
30°	486.1	485.8	484.6	484.6
32.5°	453.8	453.5	452.2	452.5
35°	420.2	421.4	420.8	419.6
37.5°	392.2	393.1	393.7	393.1
40°	368.8	371.6	371.9	372.5
42.5°	343.9	347.6	348.8	349.4
45°	314.0	317.4	320.2	319.5
47.5°	283.5	286.0	288.5	286.6
50°	254.3	255.8	256.7	256.7
52.5°	226.6	226.6	226.3	226.6
55°	194.9	194.9	193.6	194.3
57.5°	161.6	162.2	161.3	159.8
60°	130.8	129.3	128.7	127.8
62.5°	101.9	101.9	99.7	102.5
65°	76.3	75.4	74.5	74.2
67.5°	55.4	55.1	54.2	53.9
70°	39.1	37.9	37.6	36.9
72.5°	26.2	26.2	25.6	25.6
75°	16.0	14.5	14.2	14.5
77.5°	11.1	10.8	10.8	10.5
80°	7.4	7.1	7.7	6.8
82.5°	4.6	4.9	4.6	4.9
85°	3.1	3.7	3.4	3.4
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

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