

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: P246054

Luminaire Tested: **LSR8B10D010 EC8B10850 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246054
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 EC8B10850 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1145.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

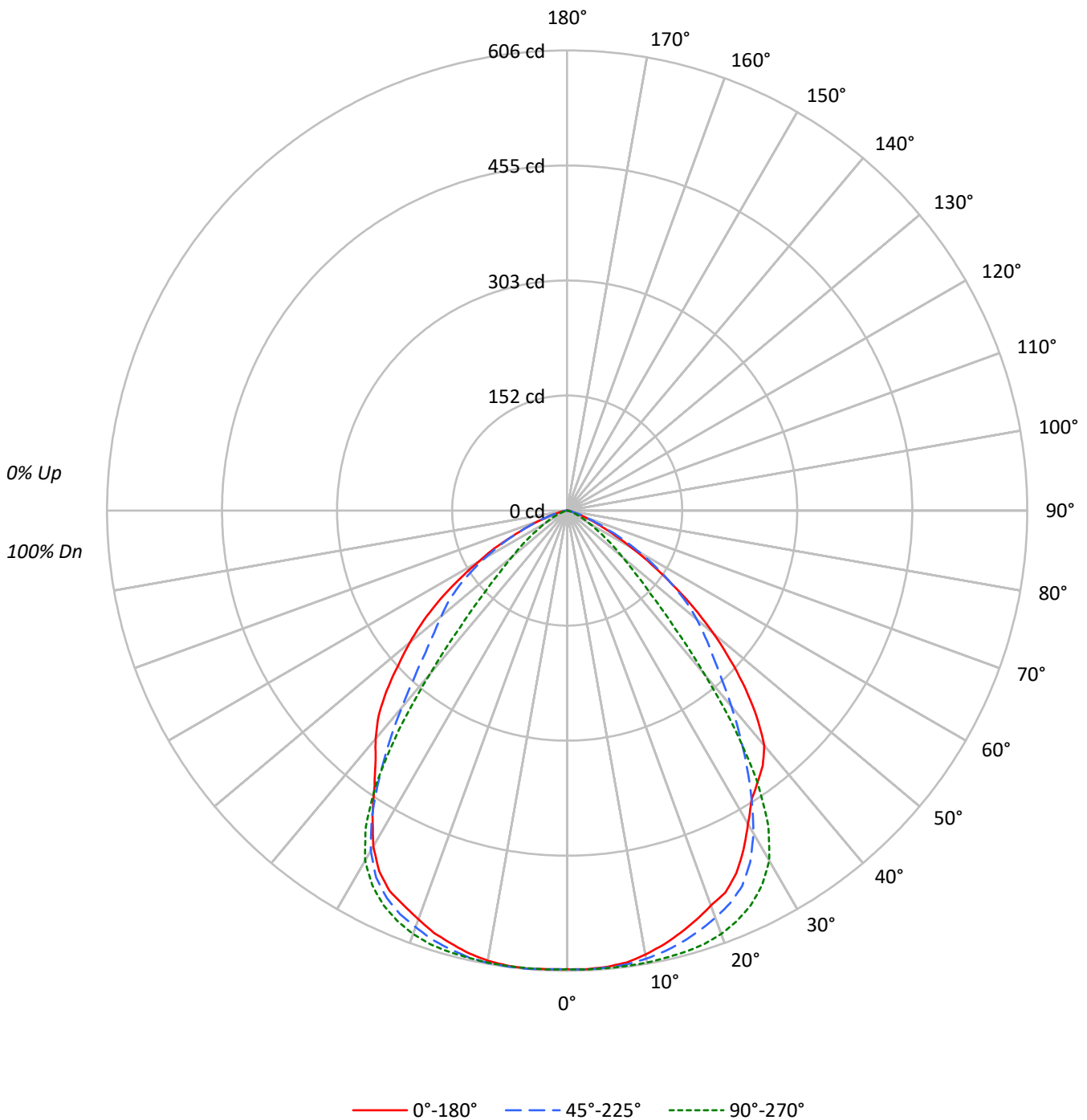
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18628	18628	18628
5°	18668	18721	18740
10°	18590	18925	18847
15°	18385	19202	18842
20°	18163	19473	18793
25°	17927	19496	18812
30°	16963	18946	18174
35°	16454	16466	16639
40°	16251	11331	15796
45°	14483	6803	14679
50°	12041	4529	12972
55°	9032	3118	11000
60°	6118	2078	8301
65°	3692	1350	5699
70°	2047	730	3507
75°	929	310	1811
80°	799	337	1261
85°	920	460	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	5.0
10°-20°	167.4	14.6
20°-30°	254.1	22.2
30°-40°	266.9	23.3
40°-50°	200.1	17.5
50°-60°	128.4	11.2
60°-70°	54.9	4.8
70°-80°	13.0	1.1
80°-90°	2.4	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°	479.2	41.9
0°-40°	746.2	65.2
0°-60°	1074.7	93.9
0°-90°	1145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	604	604	604	604	604	
5°	603	604	605	606	605	57
15°	576	588	602	598	590	162
25°	527	545	573	563	553	241
35°	437	413	437	432	442	274
45°	332	271	156	264	337	254
55°	168	168	58	175	205	152
65°	51	60	18	77	78	54
75°	8	9	3	16	15	11
85°	3	2	1	3	4	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°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1
2.5°	604.4	605.1	604.8	604.8	604.4	604.8	604.8	605.4	605.4	604.8	604.4
5°	603.1	603.8	603.8	603.1	603.1	604.8	603.8	604.4	604.4	604.1	604.1
7.5°	600.2	600.2	601.5	600.6	600.6	601.5	601.2	601.9	602.5	602.8	602.8
10°	593.7	594.4	594.7	594.7	595.0	596.0	596.7	598.0	598.6	599.3	599.6
12.5°	585.6	586.6	586.9	586.6	587.6	588.9	590.5	592.1	593.1	594.4	595.4
15°	575.9	575.9	576.6	577.5	578.2	580.1	581.7	583.7	586.3	587.9	589.5
17.5°	565.2	565.9	566.8	566.8	568.1	571.4	572.3	575.3	578.2	579.8	583.1
20°	553.5	554.2	555.2	555.8	557.4	560.0	562.0	564.6	567.8	570.7	574.0
22.5°	544.5	543.2	543.8	544.5	546.1	548.4	550.6	553.9	557.1	560.0	563.3
25°	526.9	527.3	528.2	528.9	530.8	532.8	535.4	539.3	542.2	545.4	549.0
27.5°	503.3	503.6	505.2	505.2	506.8	510.1	511.7	514.9	518.8	522.1	526.3
30°	476.4	477.0	477.0	478.3	479.3	480.9	482.5	485.8	487.7	490.6	496.5
32.5°	451.7	452.4	452.0	451.7	450.7	450.4	450.1	450.7	451.4	452.4	454.6
35°	437.1	435.5	434.2	431.9	429.3	426.1	423.2	419.3	415.7	412.8	409.6
37.5°	423.2	422.9	420.9	417.7	412.5	406.6	399.8	391.4	383.0	373.9	365.1
40°	403.7	402.7	401.1	396.6	390.8	383.6	374.5	364.2	350.5	336.6	322.3
42.5°	370.6	371.0	369.0	365.5	359.9	353.1	343.7	332.4	317.8	301.2	282.8
45°	332.1	332.1	331.4	328.5	324.6	319.1	312.0	302.6	288.3	271.4	251.6
47.5°	291.8	292.2	291.2	290.6	288.9	285.4	280.2	273.0	263.0	246.8	227.0
50°	251.0	251.0	252.6	252.3	252.3	251.0	248.7	244.5	235.7	222.8	204.3
52.5°	210.1	210.8	211.8	213.0	214.7	217.3	214.7	212.7	207.2	197.2	181.3
55°	168.0	168.6	170.2	172.5	174.5	177.1	177.7	177.7	174.8	168.0	156.0
57.5°	132.0	131.0	132.3	134.3	136.8	139.4	141.4	143.7	143.3	138.8	129.1
60°	99.2	99.6	100.5	102.5	104.4	106.7	109.3	111.2	112.2	109.9	103.8
62.5°	72.3	72.3	73.6	75.6	76.5	79.8	81.4	82.4	83.3	83.0	79.1
65°	50.6	51.2	51.9	52.9	53.8	55.8	56.7	58.7	59.3	59.7	56.7
67.5°	35.7	34.7	35.3	36.0	37.0	38.3	40.2	40.2	41.2	41.2	39.2
70°	22.7	22.7	23.0	24.0	24.6	25.0	25.6	26.3	27.2	26.9	26.9
72.5°	15.2	14.9	15.2	15.6	15.9	16.9	16.9	17.2	17.8	18.2	16.9
75°	7.8	8.1	8.8	8.4	9.4	8.8	9.1	10.1	9.7	9.1	9.1
77.5°	6.5	6.5	6.5	6.2	6.8	6.8	6.5	7.1	6.8	6.8	6.5
80°	4.5	4.9	4.5	4.2	4.5	4.2	4.2	4.2	4.2	4.2	3.9
82.5°	3.6	2.9	3.2	2.9	3.2	3.2	2.9	2.6	2.6	2.9	2.6
85°	2.6	1.9	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.6	1.6
87.5°	1.6	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	0.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1
2.5°	605.1	604.8	605.4	605.1	605.1	604.8	605.1	604.8	605.4	604.1	604.4
5°	605.1	604.4	604.8	605.1	605.4	604.8	604.8	604.8	605.4	604.8	605.1
7.5°	603.8	603.5	604.4	605.1	604.8	604.4	605.1	604.8	605.4	605.1	605.7
10°	601.2	601.5	602.2	603.1	603.5	603.8	604.4	604.4	605.4	604.1	604.8
12.5°	597.3	598.6	600.2	600.9	602.2	602.2	602.8	603.1	603.8	603.5	604.4
15°	592.5	594.1	596.0	597.6	599.3	600.2	601.2	601.5	602.5	601.5	601.9
17.5°	586.6	588.6	591.5	593.4	596.0	597.0	598.3	598.9	599.9	599.3	599.6
20°	578.5	580.8	584.0	586.9	588.6	590.8	592.5	593.4	594.1	593.4	593.7
22.5°	567.2	570.4	574.6	576.9	580.1	582.1	582.4	584.7	586.3	584.7	585.3
25°	553.9	557.1	560.3	565.2	568.1	570.4	572.7	573.0	574.6	574.3	574.0
27.5°	531.8	536.0	541.5	545.4	549.3	552.9	555.5	556.1	557.8	557.1	557.4
30°	501.7	506.2	511.4	517.5	523.1	526.6	529.9	532.1	533.8	532.8	532.5
32.5°	458.9	463.4	468.9	475.1	481.6	486.7	490.6	493.5	495.5	494.8	493.2
35°	409.9	411.2	414.8	419.6	425.1	430.6	434.2	437.4	439.7	440.4	440.4
37.5°	359.6	355.4	352.8	352.8	356.1	358.3	361.6	363.5	367.1	368.4	369.4
40°	311.0	301.2	292.2	285.4	280.8	280.5	280.5	281.5	284.7	288.9	292.8
42.5°	267.5	252.0	238.0	225.4	216.3	211.1	208.8	209.2	211.8	215.6	222.1
45°	232.8	213.4	195.9	180.6	168.3	160.2	156.3	156.0	157.9	162.5	169.6
47.5°	205.9	185.2	165.4	147.9	134.6	125.8	121.3	120.0	121.3	125.5	133.9
50°	183.5	162.1	141.7	123.5	109.3	100.2	96.0	94.4	96.0	99.6	108.0
52.5°	162.8	140.7	121.6	104.1	88.9	81.1	76.5	75.6	76.5	80.7	87.6
55°	138.8	120.0	101.2	83.7	70.4	62.6	59.0	58.0	59.0	62.9	70.0
57.5°	115.1	98.9	82.4	66.5	55.1	48.3	45.1	43.8	46.0	48.6	57.1
60°	93.1	80.1	66.1	52.2	42.8	36.6	34.0	33.7	34.4	37.6	43.4
62.5°	73.0	62.3	51.2	39.9	32.1	29.5	26.3	25.9	26.6	28.5	33.1
65°	52.5	45.7	37.3	29.2	23.0	19.5	18.2	18.5	19.1	20.4	24.6
67.5°	36.6	31.8	25.9	20.4	15.9	14.3	13.0	12.6	13.0	15.2	17.5
70°	24.6	21.7	17.5	15.6	11.0	8.8	9.1	8.1	9.4	9.4	11.3
72.5°	16.2	14.3	11.7	9.1	7.8	6.2	6.2	5.8	6.5	6.8	8.4
75°	8.4	6.5	6.5	4.5	3.2	1.6	2.9	2.6	2.3	2.6	3.2
77.5°	5.8	4.9	4.5	3.6	3.2	2.6	2.6	2.6	2.6	2.9	3.2
80°	3.6	3.6	2.6	2.3	1.9	1.6	1.9	1.9	1.9	1.9	2.3
82.5°	2.3	1.9	1.9	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.9
85°	1.9	1.3	1.3	1.0	1.3	2.3	1.0	1.3	1.3	1.3	1.0
87.5°	0.7	1.0	1.0	1.0	0.7	0.3	0.7	1.0	1.0	1.6	1.3
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°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1
2.5°	605.1	605.4	605.4	605.1	605.1	604.4	605.7	604.8	605.1	606.4	605.4
5°	605.7	606.1	606.1	605.7	605.7	605.7	606.1	606.1	605.7	605.4	606.1
7.5°	607.0	606.7	606.7	606.1	606.1	605.4	606.1	605.1	605.7	605.1	606.1
10°	605.4	605.7	605.4	605.1	605.1	604.8	604.8	603.8	604.1	603.1	603.8
12.5°	604.4	604.1	604.1	603.5	602.8	602.2	601.9	600.9	600.9	598.6	599.6
15°	601.9	602.2	601.2	599.9	599.3	597.6	597.0	595.7	594.4	592.8	593.1
17.5°	599.6	598.6	597.3	596.0	593.4	592.1	590.8	588.9	588.2	586.3	585.6
20°	592.8	592.1	590.5	588.2	586.6	583.7	582.4	580.5	578.8	576.9	575.9
22.5°	584.0	583.4	581.4	579.2	576.6	575.3	574.0	570.4	568.8	566.8	566.5
25°	573.0	572.0	570.1	567.5	566.2	562.6	561.3	558.7	558.1	556.1	555.8
27.5°	556.1	554.8	552.6	549.3	547.1	544.8	543.5	541.5	540.9	538.9	538.6
30°	530.8	529.2	524.7	523.4	519.5	517.2	517.2	514.6	514.9	513.7	513.7
32.5°	491.0	488.4	484.8	482.2	479.6	478.3	478.3	477.3	478.0	478.0	478.6
35°	438.1	434.5	432.6	431.0	431.0	432.3	436.2	437.1	439.1	440.7	442.0
37.5°	370.3	370.0	372.3	374.2	379.1	384.6	391.4	397.2	402.7	406.6	410.5
40°	297.0	305.1	311.6	320.7	328.2	338.9	351.2	361.2	370.6	377.5	384.6
42.5°	231.9	242.2	255.9	269.1	282.4	297.0	313.3	327.2	339.5	348.9	356.4
45°	180.6	194.9	211.4	228.3	245.5	263.6	280.5	294.8	307.7	317.5	324.9
47.5°	145.6	161.2	180.0	198.5	217.9	237.0	255.9	268.2	278.9	286.7	293.5
50°	120.3	136.8	156.6	177.7	197.2	216.3	232.5	244.5	253.3	260.1	264.3
52.5°	100.5	118.0	139.1	160.2	179.6	197.2	211.8	220.8	228.0	232.8	236.7
55°	83.0	99.9	119.7	139.4	158.6	175.1	187.1	193.9	199.4	202.3	204.6
57.5°	67.8	83.3	101.5	119.7	136.2	149.8	159.2	166.0	168.6	170.9	170.6
60°	53.2	67.8	84.3	99.9	114.1	125.2	132.0	135.9	137.8	138.8	138.1
62.5°	41.8	55.1	67.8	81.4	91.8	101.2	107.7	107.7	108.6	109.0	109.9
65°	31.1	41.2	52.2	62.3	70.7	76.9	80.4	81.4	82.7	82.4	81.7
67.5°	23.0	30.5	38.6	46.0	51.9	55.8	58.4	60.6	60.3	59.7	59.3
70°	15.9	20.8	27.9	32.4	36.6	40.5	41.2	41.5	41.8	42.2	41.5
72.5°	11.0	14.6	18.5	22.4	25.0	26.6	28.2	28.5	28.5	28.5	28.2
75°	5.5	7.5	11.0	12.6	14.9	15.6	16.9	16.9	17.8	16.5	16.2
77.5°	4.9	5.8	7.8	9.1	10.1	11.0	11.3	12.3	12.0	11.3	11.7
80°	2.9	3.6	4.9	5.5	6.8	7.1	7.5	7.8	7.5	7.8	7.8
82.5°	2.3	2.6	3.2	3.2	4.2	4.2	4.5	4.5	4.9	4.9	4.9
85°	1.3	2.3	1.9	3.9	2.6	2.6	3.2	3.9	3.2	3.2	3.9
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	1.9	1.9	2.3	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°	604.1	604.1	604.1	604.1
2.5°	605.1	605.7	604.8	604.4
5°	606.1	606.1	605.4	605.4
7.5°	606.1	606.1	605.1	604.4
10°	603.5	603.5	602.5	601.9
12.5°	598.6	598.6	598.3	597.3
15°	592.5	592.5	591.2	590.2
17.5°	584.0	584.7	583.1	583.1
20°	574.9	574.6	573.3	572.7
22.5°	565.5	564.9	564.6	562.6
25°	555.5	554.8	553.9	552.9
27.5°	538.3	538.0	537.0	535.7
30°	512.0	511.7	510.4	510.4
32.5°	478.0	477.7	476.4	476.7
35°	442.6	443.9	443.3	442.0
37.5°	413.1	414.1	414.8	414.1
40°	388.5	391.4	391.7	392.4
42.5°	362.2	366.1	367.4	368.0
45°	330.8	334.3	337.2	336.6
47.5°	298.7	301.2	303.8	301.9
50°	267.9	269.5	270.4	270.4
52.5°	238.7	238.7	238.3	238.7
55°	205.3	205.3	204.0	204.6
57.5°	170.2	170.9	169.9	168.3
60°	137.8	136.2	135.5	134.6
62.5°	107.3	107.3	105.1	108.0
65°	80.4	79.4	78.5	78.1
67.5°	58.4	58.0	57.1	56.7
70°	41.2	39.9	39.6	38.9
72.5°	27.6	27.6	26.9	26.9
75°	16.9	15.2	14.9	15.2
77.5°	11.7	11.3	11.3	11.0
80°	7.8	7.5	8.1	7.1
82.5°	4.9	5.2	4.9	5.2
85°	3.2	3.9	3.6	3.6
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

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