

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: P244164

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244164
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: LSR8B10D010 EC8B10830 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1152.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

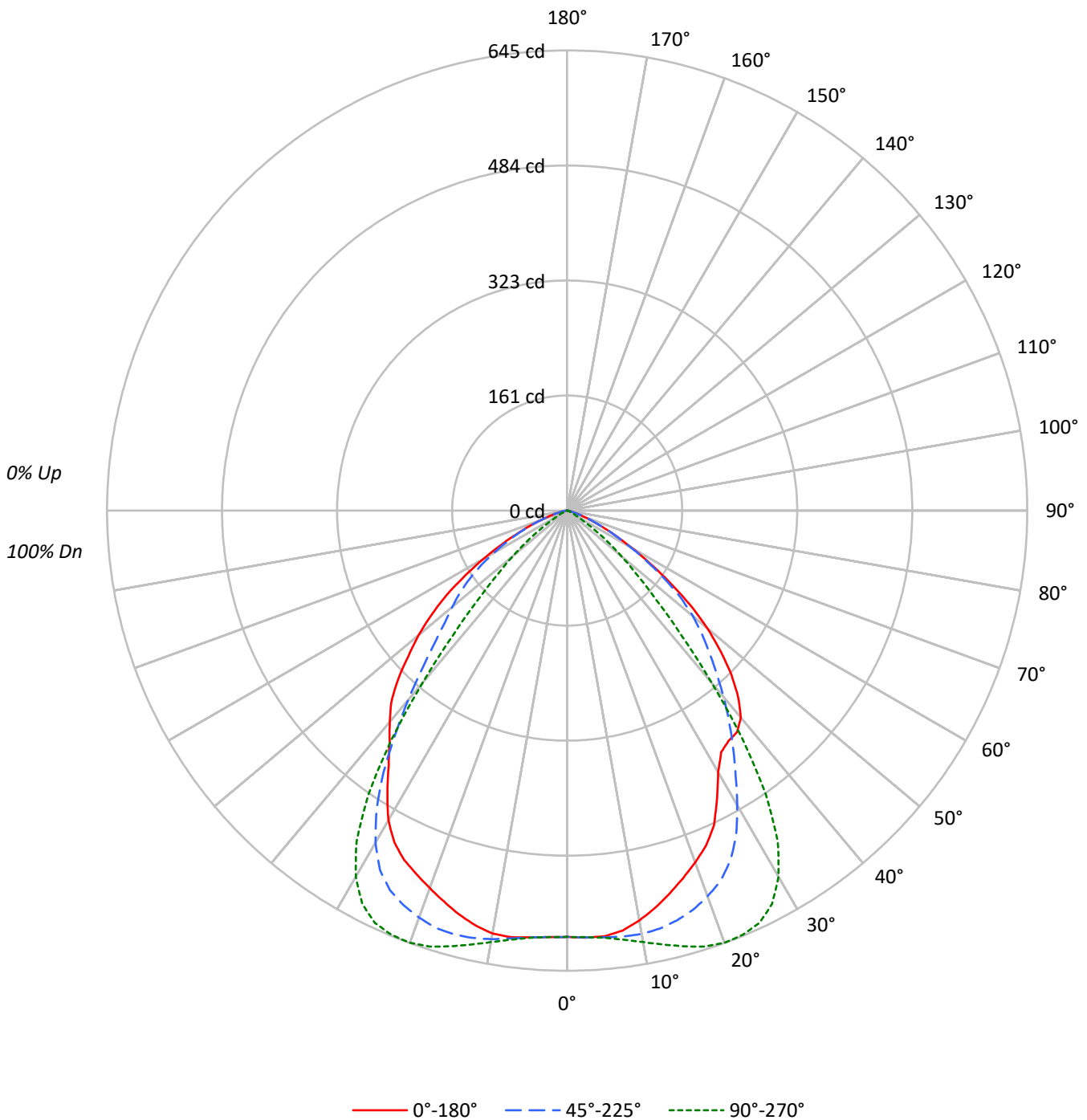
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	18428	18428	18428
5°	18538	18607	18588
10°	18264	19229	18853
15°	17731	20182	18704
20°	17218	21153	18475
25°	16556	21694	18390
30°	15069	21097	17846
35°	14843	18280	16420
40°	15244	12680	15566
45°	14195	7662	14635
50°	12310	4730	13039
55°	9446	2473	11069
60°	6439	999	8350
65°	4006	511	5764
70°	2173	316	3516
75°	1132	155	2073
80°	515	178	1119
85°	354	106	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	5.0
10°-20°	170.3	14.8
20°-30°	259.7	22.5
30°-40°	271.0	23.5
40°-50°	203.6	17.7
50°-60°	125.3	10.9
60°-70°	51.0	4.4
70°-80°	12.0	1.0
80°-90°	1.7	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°	487.5	42.3
0°-40°	758.5	65.8
0°-60°	1087.4	94.4
0°-90°	1152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	598	598	598	598	598	
5°	599	600	601	600	600	57
15°	555	594	632	615	586	156
25°	487	541	638	587	540	221
35°	394	405	486	449	436	249
45°	326	282	176	262	336	248
55°	176	167	46	167	206	158
65°	55	56	7	74	79	57
75°	10	10	1	17	17	11
85°	1	1	0	2	3	1
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°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	599.2	598.3	599.2	599.2	599.5	598.9	599.2	599.5	598.9	598.9	598.9
5°	598.9	598.3	598.9	598.6	599.2	599.2	599.8	599.8	600.5	600.5	601.4
7.5°	593.8	592.5	593.8	594.8	595.4	596.7	598.3	599.5	600.8	602.1	603.6
10°	583.3	583.3	584.3	586.2	588.1	590.3	593.2	596.4	599.5	602.4	605.2
12.5°	570.3	569.4	571.3	573.8	576.7	580.2	584.6	589.4	594.5	600.2	604.6
15°	555.4	554.5	556.7	559.2	562.7	567.8	573.2	579.5	586.8	594.5	601.7
17.5°	540.2	539.9	542.1	545.6	548.5	553.8	560.8	568.4	576.7	586.8	596.4
20°	524.7	524.3	526.6	529.4	533.2	538.3	545.3	554.2	564.0	575.4	586.5
22.5°	508.5	508.8	510.7	513.9	517.1	522.4	529.7	538.6	549.4	561.8	574.1
25°	486.6	485.0	487.6	490.7	496.1	500.6	507.5	517.1	528.2	541.2	555.8
27.5°	454.9	454.6	456.8	459.6	464.4	469.8	477.4	487.2	499.0	513.2	527.5
30°	423.2	423.8	424.7	427.6	430.8	436.2	443.8	452.0	463.1	476.8	492.0
32.5°	401.6	401.6	402.9	404.8	407.0	409.8	415.2	421.3	429.8	439.3	450.4
35°	394.3	393.0	394.3	394.6	394.9	395.6	396.5	398.4	401.3	405.4	409.5
37.5°	391.1	390.2	390.2	388.9	387.3	385.4	382.9	380.0	376.8	372.7	369.6
40°	378.7	378.1	377.5	376.2	372.7	368.9	364.8	358.1	350.8	340.7	330.5
42.5°	355.0	354.3	354.0	351.5	348.3	343.9	339.1	332.1	322.9	309.9	295.3
45°	325.5	324.2	323.2	321.0	318.8	315.0	310.5	304.2	295.0	281.7	264.2
47.5°	291.2	290.6	290.2	289.3	287.1	284.8	282.0	276.9	268.7	256.0	237.9
50°	256.6	255.4	256.0	255.7	254.7	253.1	251.2	247.7	241.4	230.0	213.5
52.5°	217.0	217.0	216.7	217.6	217.9	217.6	217.9	214.1	208.7	200.2	186.2
55°	175.7	175.7	176.7	178.0	179.2	179.5	179.2	177.6	173.8	166.9	154.5
57.5°	137.0	136.4	138.3	140.2	141.5	142.7	141.8	140.5	138.3	132.6	123.1
60°	104.4	104.4	105.6	106.9	108.2	109.4	109.1	108.8	106.9	103.1	95.5
62.5°	76.8	77.1	77.1	78.0	79.3	80.6	81.5	80.6	79.6	77.1	72.0
65°	54.9	54.6	54.9	55.8	56.8	58.0	58.7	58.4	57.4	55.5	51.7
67.5°	36.8	36.5	37.7	38.1	38.7	40.0	39.7	40.0	39.7	38.1	34.9
70°	24.1	23.5	24.1	23.8	24.7	25.1	25.7	26.0	25.7	24.7	23.8
72.5°	14.9	14.6	14.9	15.2	15.5	15.9	16.5	16.5	16.2	15.5	14.3
75°	9.5	8.6	8.9	8.3	8.9	8.9	9.5	9.8	9.5	9.5	8.9
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.0	6.3	5.7	5.4
80°	2.9	2.9	3.2	3.2	3.2	3.5	3.2	3.2	3.2	3.5	2.5
82.5°	2.2	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.3	1.0	0.6	1.0	1.0	1.3	1.0	1.0	1.0	1.3
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.6	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°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	599.2	598.6	598.6	598.3	598.9	598.3	598.6	598.3	598.3	598.9	598.3
5°	601.4	601.7	601.1	600.8	601.7	601.7	601.7	601.1	601.1	601.4	601.1
7.5°	604.6	605.2	605.5	605.9	606.5	606.8	606.8	606.5	606.2	607.1	605.9
10°	608.1	609.0	610.9	611.9	613.5	613.5	614.1	614.1	613.5	614.1	613.8
12.5°	606.8	612.5	615.7	617.9	620.1	622.0	622.7	623.0	622.7	624.0	622.7
15°	609.0	613.8	618.9	622.7	626.8	629.0	629.7	632.2	632.8	633.1	631.2
17.5°	605.5	614.1	619.5	625.2	631.2	635.4	639.2	640.8	641.1	641.7	639.2
20°	597.6	607.1	615.4	623.6	630.6	637.0	640.1	644.6	643.3	645.8	642.3
22.5°	586.8	597.6	608.1	618.9	626.2	633.8	640.4	643.6	645.2	645.2	641.4
25°	569.7	582.4	593.8	604.9	616.0	625.2	632.8	637.6	638.5	638.2	633.8
27.5°	543.1	556.7	570.0	582.7	596.4	607.1	616.0	621.7	623.3	623.3	618.6
30°	506.3	520.9	533.9	549.1	563.0	575.1	587.5	592.5	595.4	595.4	590.0
32.5°	462.5	474.9	486.9	501.8	517.1	530.7	542.4	549.4	552.9	552.6	547.8
35°	414.9	420.9	430.1	441.2	454.9	467.6	479.0	485.6	491.7	491.4	486.9
37.5°	367.3	365.7	366.7	370.8	379.4	388.3	397.1	403.5	408.6	410.8	409.8
40°	320.7	312.4	304.5	301.7	302.3	305.5	310.2	315.0	320.7	323.6	324.8
42.5°	278.8	264.9	250.9	240.4	234.4	232.5	234.7	236.3	239.8	243.9	248.1
45°	245.2	226.5	208.1	191.9	181.8	175.7	174.5	175.7	177.6	181.8	187.2
47.5°	217.6	195.7	175.1	157.0	142.1	134.2	132.0	131.3	133.2	137.0	144.3
50°	193.2	171.3	148.5	127.5	112.0	103.1	99.9	98.6	100.9	103.7	110.4
52.5°	166.5	145.0	121.5	101.2	85.0	75.8	72.3	70.4	71.7	75.5	82.2
55°	137.7	117.7	96.4	75.5	60.0	51.4	47.3	46.0	47.3	51.4	58.0
57.5°	108.8	92.0	74.2	54.6	40.6	32.0	27.9	26.6	30.1	31.7	38.7
60°	85.0	71.4	56.1	40.0	27.9	21.3	17.1	16.2	17.8	20.6	26.3
62.5°	63.8	55.2	43.1	28.5	20.6	13.6	11.4	10.5	11.4	13.6	18.1
65°	46.3	39.7	30.1	20.9	14.0	10.2	7.6	7.0	7.9	9.5	13.3
67.5°	31.7	26.6	20.9	14.6	9.5	6.3	5.4	5.4	5.7	7.0	9.8
70°	20.6	17.4	13.3	9.5	6.3	4.8	4.1	3.5	4.1	5.1	6.7
72.5°	13.0	11.1	8.6	6.7	4.8	3.5	2.9	2.5	3.2	3.8	5.1
75°	7.9	6.0	4.4	3.5	2.5	2.5	2.5	1.3	1.6	2.5	3.2
77.5°	4.8	4.1	3.5	2.9	2.2	1.3	1.3	1.3	1.6	1.9	2.9
80°	2.5	2.2	1.6	1.6	1.3	1.0	1.3	1.0	0.6	1.6	1.9
82.5°	1.6	1.3	1.3	1.3	1.6	0.6	1.0	0.6	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.6	1.6	0.6	0.6	0.3	0.3	0.6	0.6
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	598.6	598.3	598.6	598.3	598.3	598.3	598.6	598.6	598.3	598.3	598.9
5°	601.1	601.1	601.1	600.8	600.5	600.5	601.1	601.1	600.2	601.1	601.1
7.5°	606.5	605.5	606.5	605.2	604.6	604.9	605.2	604.6	604.0	604.3	604.3
10°	613.5	612.5	612.5	611.6	610.6	610.0	609.4	607.8	606.2	605.9	604.6
12.5°	621.7	620.1	619.2	617.3	615.7	613.5	611.6	609.0	605.9	603.6	601.4
15°	630.0	627.4	625.2	622.0	618.6	614.7	610.6	606.5	601.4	597.0	593.2
17.5°	636.6	633.1	629.0	624.0	618.9	613.2	607.1	601.1	593.8	588.1	583.7
20°	638.9	633.8	628.4	621.7	615.1	607.1	599.5	591.6	583.3	577.3	572.2
22.5°	636.0	630.0	623.3	616.3	607.5	598.9	590.0	580.8	573.5	565.3	560.5
25°	628.1	620.8	613.5	605.2	596.7	587.2	577.6	568.1	559.2	554.8	548.8
27.5°	611.9	604.0	596.0	587.5	577.6	568.1	558.3	549.1	541.5	535.4	532.0
30°	583.3	574.1	564.9	555.8	547.2	537.3	528.2	520.5	512.9	508.2	504.7
32.5°	539.6	531.3	522.1	513.2	505.3	497.1	489.5	482.8	477.4	474.2	471.7
35°	480.6	472.3	465.3	459.0	452.3	448.9	444.1	440.3	438.1	436.8	436.5
37.5°	406.3	401.6	399.4	398.1	396.8	395.9	396.5	398.1	399.4	401.6	404.1
40°	327.0	331.2	332.4	336.9	341.0	346.4	352.4	359.4	365.1	372.4	377.5
42.5°	254.7	262.3	271.2	280.7	290.9	300.7	312.8	323.9	334.0	343.2	351.1
45°	195.7	207.5	220.8	234.4	248.1	262.3	276.9	290.6	302.6	312.4	320.7
47.5°	152.6	165.6	182.7	199.5	216.0	232.8	249.0	263.3	273.4	282.9	290.2
50°	120.9	135.8	154.5	173.8	191.9	209.7	226.8	240.1	250.3	257.9	263.3
52.5°	93.6	111.3	130.4	150.7	170.0	189.4	205.2	217.6	225.9	232.5	236.6
55°	69.8	87.2	107.5	128.5	148.1	166.9	181.8	192.5	199.8	203.6	205.9
57.5°	50.4	66.3	86.6	107.5	125.3	143.1	155.1	164.9	169.1	171.3	172.2
60°	36.8	51.4	69.5	87.6	104.4	118.6	129.1	135.8	138.9	140.2	139.9
62.5°	27.0	39.7	55.2	70.4	84.1	95.8	104.0	108.5	110.1	110.7	109.8
65°	20.6	30.4	43.8	55.5	66.0	74.5	80.6	83.4	84.4	84.1	83.4
67.5°	15.2	22.8	32.7	41.6	49.2	55.8	59.0	61.5	62.2	61.2	60.3
70°	10.8	16.8	23.8	29.8	35.5	39.3	42.8	43.1	43.1	42.8	42.2
72.5°	7.6	11.7	16.2	20.3	23.8	26.6	27.9	28.9	28.5	28.2	27.6
75°	5.1	7.3	11.7	12.7	15.9	16.8	18.1	18.1	18.4	17.4	17.4
77.5°	3.2	5.1	7.0	8.3	9.5	10.8	11.4	11.4	11.7	11.4	11.4
80°	1.9	3.2	3.8	5.7	5.7	6.7	7.0	7.3	6.7	7.6	6.7
82.5°	1.3	1.9	2.9	2.9	3.5	4.1	4.1	4.4	4.4	4.1	4.1
85°	1.0	1.3	1.6	1.9	1.9	2.2	1.9	1.9	2.2	2.5	2.2
87.5°	0.3	0.6	0.3	0.6	0.6	1.3	1.0	1.0	1.0	1.3	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):

	165°	170°	175°	180°
0°	597.6	597.6	597.6	597.6
2.5°	598.3	598.6	598.3	598.3
5°	601.1	600.8	601.1	600.5
7.5°	603.3	603.3	603.0	603.0
10°	603.3	602.1	602.1	602.1
12.5°	598.6	597.0	596.0	595.4
15°	590.3	587.5	586.2	585.9
17.5°	579.5	577.0	575.4	574.5
20°	567.2	564.6	562.7	563.0
22.5°	556.4	553.5	552.3	551.6
25°	545.6	542.1	541.2	540.5
27.5°	528.2	526.2	525.3	524.3
30°	501.5	500.6	499.0	501.2
32.5°	470.7	469.1	467.9	468.8
35°	436.8	435.8	436.8	436.2
37.5°	405.7	406.7	407.9	408.6
40°	381.3	384.8	386.0	386.7
42.5°	356.9	361.0	363.5	365.1
45°	326.7	330.8	333.7	335.6
47.5°	295.6	299.1	302.0	301.7
50°	267.4	269.3	270.6	271.8
52.5°	238.9	238.9	239.2	239.2
55°	206.5	205.9	205.5	205.9
57.5°	171.0	170.3	170.0	169.1
60°	138.6	136.7	135.4	135.4
62.5°	108.5	106.3	105.3	105.0
65°	81.5	81.2	79.3	79.0
67.5°	59.0	57.7	56.5	56.8
70°	41.6	39.7	39.7	39.0
72.5°	27.0	26.0	25.7	25.7
75°	16.8	16.8	16.2	17.4
77.5°	11.1	11.1	10.8	11.1
80°	6.7	6.7	6.7	6.3
82.5°	4.1	4.4	4.1	4.1
85°	2.2	2.5	1.9	2.9
87.5°	1.3	1.6	1.3	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)