

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: P246151

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246151
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 EC8B15940 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1234.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

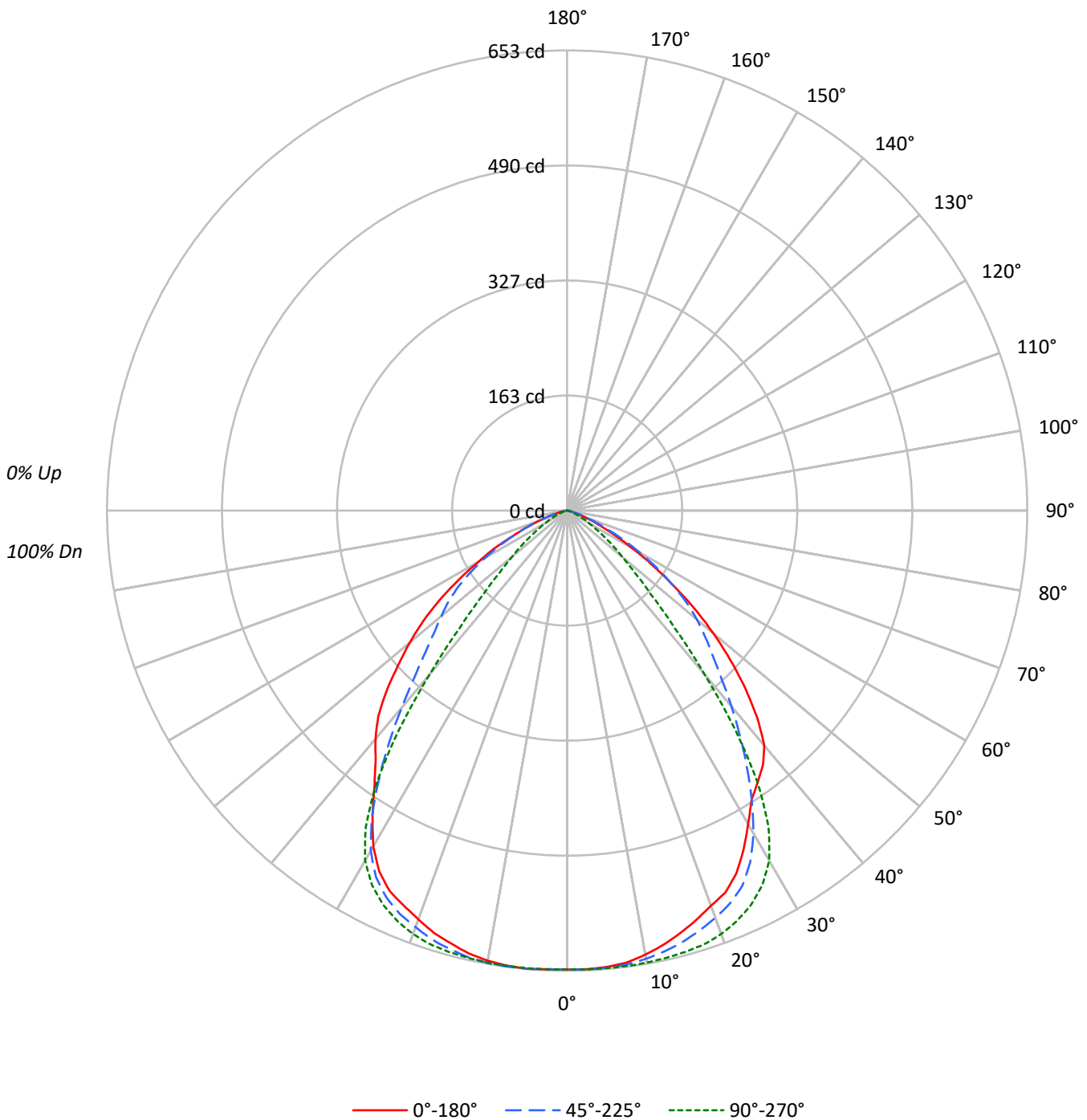
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	52	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°	20078	20078	20078
5°	20120	20176	20198
10°	20037	20397	20309
15°	19815	20696	20307
20°	19578	20985	20254
25°	19322	21010	20275
30°	18280	20420	19587
35°	17734	17745	17930
40°	17514	12209	17023
45°	15608	7331	15821
50°	12977	4879	13984
55°	9731	3365	11854
60°	6593	2239	8943
65°	3977	1452	6144
70°	2209	784	3778
75°	1001	334	1954
80°	870	373	1367
85°	991	495	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	5.0
10°-20°	180.5	14.6
20°-30°	273.9	22.2
30°-40°	287.7	23.3
40°-50°	215.7	17.5
50°-60°	138.4	11.2
60°-70°	59.2	4.8
70°-80°	14.0	1.1
80°-90°	2.6	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°	516.5	41.9
0°-40°	804.2	65.2
0°-60°	1158.2	93.9
0°-90°	1234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1234.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	651	651	651	651	651	
5°	650	651	652	653	652	62
15°	621	634	648	644	636	175
25°	568	588	618	606	596	259
35°	471	445	471	466	476	296
45°	358	292	168	284	363	274
55°	181	181	63	189	220	164
65°	54	64	20	83	84	58
75°	8	10	3	17	16	12
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°	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1
2.5°	651.4	652.1	651.8	651.8	651.4	651.8	651.8	652.5	652.5	651.8	651.4
5°	650.0	650.7	650.7	650.0	650.0	651.8	650.7	651.4	651.4	651.1	651.1
7.5°	646.9	646.9	648.3	647.2	647.2	648.3	647.9	648.6	649.3	649.7	649.7
10°	639.9	640.6	640.9	640.9	641.3	642.3	643.0	644.4	645.1	645.8	646.2
12.5°	631.2	632.2	632.6	632.2	633.3	634.7	636.4	638.2	639.2	640.6	641.7
15°	620.7	620.7	621.4	622.4	623.1	625.2	627.0	629.1	631.9	633.6	635.4
17.5°	609.1	609.8	610.9	610.9	612.3	615.8	616.8	620.0	623.1	624.9	628.4
20°	596.6	597.3	598.3	599.0	600.8	603.6	605.6	608.4	611.9	615.1	618.6
22.5°	586.8	585.4	586.1	586.8	588.5	591.0	593.4	596.9	600.4	603.6	607.1
25°	567.9	568.3	569.3	570.0	572.1	574.2	577.0	581.2	584.3	587.8	591.7
27.5°	542.4	542.7	544.5	544.5	546.2	549.7	551.5	555.0	559.2	562.7	567.2
30°	513.4	514.1	514.1	515.5	516.5	518.3	520.0	523.5	525.6	528.8	535.1
32.5°	486.8	487.5	487.2	486.8	485.8	485.4	485.1	485.8	486.5	487.5	490.0
35°	471.1	469.4	468.0	465.5	462.7	459.2	456.1	451.9	448.0	444.9	441.4
37.5°	456.1	455.7	453.6	450.1	444.5	438.3	430.9	421.8	412.7	403.0	393.5
40°	435.1	434.1	432.3	427.4	421.1	413.4	403.7	392.5	377.8	362.8	347.4
42.5°	399.5	399.8	397.7	393.9	387.9	380.6	370.4	358.2	342.5	324.7	304.7
45°	357.9	357.9	357.2	354.0	349.8	343.9	336.2	326.1	310.7	292.5	271.2
47.5°	314.5	314.9	313.8	313.1	311.4	307.5	302.0	294.3	283.4	266.0	244.6
50°	270.5	270.5	272.2	271.9	271.9	270.5	268.1	263.5	254.1	240.1	220.2
52.5°	226.5	227.2	228.2	229.6	231.4	234.2	231.4	229.3	223.3	212.5	195.4
55°	181.0	181.7	183.5	185.9	188.0	190.8	191.5	191.5	188.4	181.0	168.1
57.5°	142.2	141.2	142.6	144.7	147.5	150.3	152.4	154.8	154.5	149.6	139.1
60°	106.9	107.3	108.3	110.4	112.5	115.0	117.8	119.9	120.9	118.5	111.8
62.5°	77.9	77.9	79.3	81.4	82.5	86.0	87.7	88.8	89.8	89.5	85.3
65°	54.5	55.2	55.9	57.0	58.0	60.1	61.2	63.3	64.0	64.3	61.2
67.5°	38.4	37.4	38.1	38.8	39.8	41.2	43.3	43.3	44.4	44.4	42.3
70°	24.5	24.5	24.8	25.9	26.6	26.9	27.6	28.3	29.4	29.0	29.0
72.5°	16.4	16.1	16.4	16.8	17.1	18.2	18.2	18.5	19.2	19.6	18.2
75°	8.4	8.7	9.4	9.1	10.1	9.4	9.8	10.8	10.5	9.8	9.8
77.5°	7.0	7.0	7.0	6.6	7.3	7.3	7.0	7.7	7.3	7.3	7.0
80°	4.9	5.2	4.9	4.5	4.9	4.5	4.5	4.5	4.5	4.5	4.2
82.5°	3.8	3.1	3.5	3.1	3.5	3.5	3.1	2.8	2.8	3.1	2.8
85°	2.8	2.1	2.4	2.4	2.1	2.1	2.1	2.1	2.1	1.7	1.7
87.5°	1.7	1.1	1.1	1.1	1.4	1.4	1.4	1.1	1.4	1.4	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°	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1
2.5°	652.1	651.8	652.5	652.1	652.1	651.8	652.1	651.8	652.5	651.1	651.4
5°	652.1	651.4	651.8	652.1	652.5	651.8	651.8	651.8	652.5	651.8	652.1
7.5°	650.7	650.4	651.4	652.1	651.8	651.4	652.1	651.8	652.5	652.1	652.8
10°	647.9	648.3	649.0	650.0	650.4	650.7	651.4	651.4	652.5	651.1	651.8
12.5°	643.7	645.1	646.9	647.6	649.0	649.0	649.7	650.0	650.7	650.4	651.4
15°	638.5	640.2	642.3	644.1	645.8	646.9	647.9	648.3	649.3	648.3	648.6
17.5°	632.2	634.3	637.5	639.5	642.3	643.4	644.8	645.5	646.5	645.8	646.2
20°	623.5	625.9	629.4	632.6	634.3	636.8	638.5	639.5	640.2	639.5	639.9
22.5°	611.2	614.7	619.3	621.7	625.2	627.3	627.7	630.1	631.9	630.1	630.8
25°	596.9	600.4	603.9	609.1	612.3	614.7	617.2	617.5	619.3	618.9	618.6
27.5°	573.1	577.7	583.6	587.8	592.0	595.9	598.7	599.4	601.1	600.4	600.8
30°	540.6	545.5	551.1	557.8	563.7	567.6	571.1	573.5	575.2	574.2	573.8
32.5°	494.5	499.4	505.4	512.0	519.0	524.6	528.8	531.9	534.0	533.3	531.6
35°	441.7	443.1	447.0	452.2	458.2	464.1	468.0	471.4	473.9	474.6	474.6
37.5°	387.6	383.0	380.2	380.2	383.7	386.2	389.7	391.8	395.6	397.0	398.1
40°	335.1	324.7	314.9	307.5	302.7	302.3	302.3	303.3	306.8	311.4	315.6
42.5°	288.3	271.5	256.5	242.9	233.1	227.5	225.1	225.4	228.2	232.4	239.4
45°	250.9	230.0	211.1	194.7	181.4	172.6	168.5	168.1	170.2	175.1	182.8
47.5°	221.9	199.6	178.2	159.4	145.0	135.6	130.7	129.3	130.7	135.2	144.3
50°	197.8	174.7	152.7	133.2	117.8	108.0	103.4	101.7	103.4	107.3	116.4
52.5°	175.4	151.7	131.1	112.2	95.8	87.4	82.5	81.4	82.5	87.0	94.4
55°	149.6	129.3	109.0	90.2	75.8	67.5	63.6	62.6	63.6	67.8	75.5
57.5°	124.1	106.6	88.8	71.6	59.4	52.1	48.6	47.2	49.6	52.4	61.5
60°	100.3	86.3	71.3	56.3	46.1	39.5	36.7	36.3	37.0	40.5	46.8
62.5°	78.6	67.1	55.2	43.0	34.6	31.8	28.3	28.0	28.7	30.8	35.6
65°	56.6	49.3	40.2	31.5	24.8	21.0	19.6	19.9	20.6	22.0	26.6
67.5°	39.5	34.2	28.0	22.0	17.1	15.4	14.0	13.6	14.0	16.4	18.9
70°	26.6	23.4	18.9	16.8	11.9	9.4	9.8	8.7	10.1	10.1	12.2
72.5°	17.5	15.4	12.6	9.8	8.4	6.6	6.6	6.3	7.0	7.3	9.1
75°	9.1	7.0	7.0	4.9	3.5	1.7	3.1	2.8	2.4	2.8	3.5
77.5°	6.3	5.2	4.9	3.8	3.5	2.8	2.8	2.8	2.8	3.1	3.5
80°	3.8	3.8	2.8	2.4	2.1	1.7	2.1	2.1	2.1	2.1	2.4
82.5°	2.4	2.1	2.1	1.7	1.7	1.4	1.4	1.4	1.4	1.4	2.1
85°	2.1	1.4	1.4	1.1	1.4	2.4	1.1	1.4	1.4	1.4	1.1
87.5°	0.7	1.1	1.1	1.1	0.7	0.4	0.7	1.1	1.1	1.7	1.4
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°	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1
2.5°	652.1	652.5	652.5	652.1	652.1	651.4	652.8	651.8	652.1	653.5	652.5
5°	652.8	653.2	653.2	652.8	652.8	652.8	653.2	653.2	652.8	652.5	653.2
7.5°	654.2	653.9	653.9	653.2	653.2	652.5	653.2	652.1	652.8	652.1	653.2
10°	652.5	652.8	652.5	652.1	652.1	651.8	651.8	650.7	651.1	650.0	650.7
12.5°	651.4	651.1	651.1	650.4	649.7	649.0	648.6	647.6	647.6	645.1	646.2
15°	648.6	649.0	647.9	646.5	645.8	644.1	643.4	642.0	640.6	638.9	639.2
17.5°	646.2	645.1	643.7	642.3	639.5	638.2	636.8	634.7	634.0	631.9	631.2
20°	638.9	638.2	636.4	634.0	632.2	629.1	627.7	625.6	623.8	621.7	620.7
22.5°	629.4	628.7	626.6	624.2	621.4	620.0	618.6	614.7	613.0	610.9	610.5
25°	617.5	616.5	614.4	611.6	610.2	606.4	604.9	602.2	601.5	599.4	599.0
27.5°	599.4	598.0	595.5	592.0	589.6	587.1	585.7	583.6	582.9	580.8	580.5
30°	572.1	570.4	565.5	564.1	559.9	557.4	557.4	554.6	555.0	553.6	553.6
32.5°	529.1	526.3	522.5	519.7	516.9	515.5	515.5	514.4	515.1	515.1	515.8
35°	472.1	468.3	466.2	464.5	464.5	465.9	470.1	471.1	473.2	474.9	476.3
37.5°	399.1	398.8	401.2	403.3	408.5	414.5	421.8	428.1	434.1	438.3	442.4
40°	320.1	328.9	335.8	345.6	353.7	365.2	378.5	389.3	399.5	406.8	414.5
42.5°	249.9	261.1	275.7	290.1	304.4	320.1	337.6	352.6	365.9	376.0	384.1
45°	194.7	210.0	227.9	246.0	264.6	284.1	302.3	317.7	331.7	342.1	350.2
47.5°	156.9	173.7	194.0	213.9	234.9	255.5	275.7	289.0	300.6	308.9	316.3
50°	129.7	147.5	168.8	191.5	212.5	233.1	250.6	263.5	272.9	280.3	284.8
52.5°	108.3	127.2	149.9	172.6	193.6	212.5	228.2	238.0	245.7	250.9	255.1
55°	89.5	107.6	129.0	150.3	170.9	188.7	201.6	209.0	214.9	218.1	220.5
57.5°	73.0	89.8	109.4	129.0	146.8	161.5	171.6	178.9	181.7	184.2	183.8
60°	57.3	73.0	90.9	107.6	123.0	134.9	142.2	146.4	148.5	149.6	148.9
62.5°	45.1	59.4	73.0	87.7	98.9	109.0	116.0	116.0	117.1	117.4	118.5
65°	33.5	44.4	56.3	67.1	76.2	82.8	86.7	87.7	89.1	88.8	88.1
67.5°	24.8	32.9	41.6	49.6	55.9	60.1	62.9	65.4	65.0	64.3	64.0
70°	17.1	22.4	30.1	34.9	39.5	43.7	44.4	44.7	45.1	45.4	44.7
72.5°	11.9	15.7	19.9	24.1	26.9	28.7	30.4	30.8	30.8	30.8	30.4
75°	5.9	8.0	11.9	13.6	16.1	16.8	18.2	18.2	19.2	17.8	17.5
77.5°	5.2	6.3	8.4	9.8	10.8	11.9	12.2	13.3	12.9	12.2	12.6
80°	3.1	3.8	5.2	5.9	7.3	7.7	8.0	8.4	8.0	8.4	8.4
82.5°	2.4	2.8	3.5	3.5	4.5	4.5	4.9	4.9	5.2	5.2	5.2
85°	1.4	2.4	2.1	4.2	2.8	2.8	3.5	4.2	3.5	3.5	4.2
87.5°	1.4	1.4	1.1	1.4	1.4	1.4	1.7	2.1	2.1	2.4	2.1
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°	651.1	651.1	651.1	651.1
2.5°	652.1	652.8	651.8	651.4
5°	653.2	653.2	652.5	652.5
7.5°	653.2	653.2	652.1	651.4
10°	650.4	650.4	649.3	648.6
12.5°	645.1	645.1	644.8	643.7
15°	638.5	638.5	637.1	636.1
17.5°	629.4	630.1	628.4	628.4
20°	619.6	619.3	617.9	617.2
22.5°	609.5	608.8	608.4	606.4
25°	598.7	598.0	596.9	595.9
27.5°	580.1	579.8	578.7	577.3
30°	551.8	551.5	550.1	550.1
32.5°	515.1	514.8	513.4	513.7
35°	477.0	478.4	477.7	476.3
37.5°	445.2	446.3	447.0	446.3
40°	418.7	421.8	422.2	422.9
42.5°	390.4	394.6	396.0	396.7
45°	356.5	360.3	363.5	362.8
47.5°	321.9	324.7	327.5	325.4
50°	288.7	290.4	291.5	291.5
52.5°	257.2	257.2	256.9	257.2
55°	221.2	221.2	219.8	220.5
57.5°	183.5	184.2	183.1	181.4
60°	148.5	146.8	146.1	145.0
62.5°	115.7	115.7	113.2	116.4
65°	86.7	85.6	84.6	84.2
67.5°	62.9	62.6	61.5	61.2
70°	44.4	43.0	42.6	41.9
72.5°	29.7	29.7	29.0	29.0
75°	18.2	16.4	16.1	16.4
77.5°	12.6	12.2	12.2	11.9
80°	8.4	8.0	8.7	7.7
82.5°	5.2	5.6	5.2	5.6
85°	3.5	4.2	3.8	3.8
87.5°	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)