

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: P246096

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246096  
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 EC8B109730 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 832.0 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

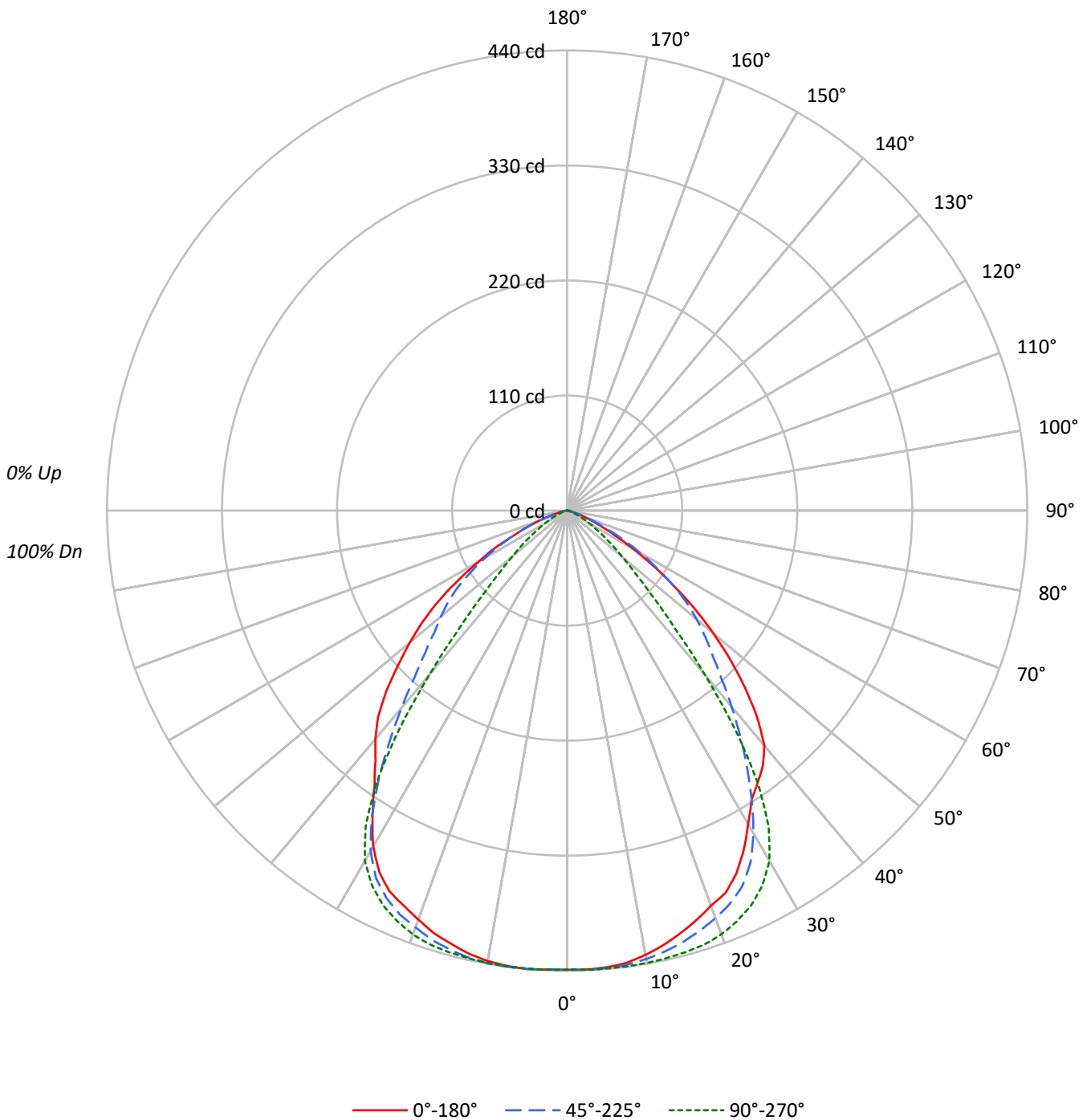
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90	90	90	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70	70	70	70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62	62	62	62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55	55	55	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50	50	50	50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45	45	45	45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41	41	41	41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37	37	37	37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34	34	34	34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	5.0
10°-20°	121.7	14.6
20°-30°	184.7	22.2
30°-40°	194.0	23.3
40°-50°	145.4	17.5
50°-60°	93.3	11.2
60°-70°	39.9	4.8
70°-80°	9.4	1.1
80°-90°	1.7	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°	348.2	41.9
0°-40°	542.2	65.2
0°-60°	780.9	93.9
0°-90°	832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	439	439	439	439	439	
5°	438	439	440	440	440	42
15°	418	427	437	434	429	118
25°	383	396	416	409	402	175
35°	318	300	318	314	321	199
45°	241	197	113	192	245	185
55°	122	122	42	127	149	111
65°	37	43	13	56	57	39
75°	6	7	2	11	11	8
85°	2	1	1	2	3	2
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°	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0
2.5°	439.2	439.7	439.5	439.5	439.2	439.5	439.5	439.9	439.9	439.5	439.2
5°	438.3	438.7	438.7	438.3	438.3	439.5	438.7	439.2	439.2	439.0	439.0
7.5°	436.2	436.2	437.1	436.4	436.4	437.1	436.9	437.3	437.8	438.0	438.0
10°	431.4	431.9	432.1	432.1	432.4	433.1	433.6	434.5	435.0	435.4	435.7
12.5°	425.6	426.3	426.5	426.3	427.0	427.9	429.1	430.3	431.0	431.9	432.6
15°	418.5	418.5	419.0	419.7	420.1	421.5	422.7	424.1	426.0	427.2	428.4
17.5°	410.7	411.2	411.9	411.9	412.8	415.2	415.9	418.0	420.1	421.3	423.7
20°	402.2	402.7	403.4	403.9	405.0	406.9	408.3	410.2	412.6	414.7	417.1
22.5°	395.6	394.7	395.2	395.6	396.8	398.5	400.1	402.5	404.8	406.9	409.3
25°	382.9	383.1	383.8	384.3	385.7	387.1	389.0	391.9	394.0	396.3	398.9
27.5°	365.7	365.9	367.1	367.1	368.3	370.6	371.8	374.2	377.0	379.4	382.4
30°	346.1	346.6	346.6	347.6	348.3	349.4	350.6	353.0	354.4	356.5	360.8
32.5°	328.2	328.7	328.5	328.2	327.5	327.3	327.1	327.5	328.0	328.7	330.4
35°	317.6	316.5	315.5	313.9	312.0	309.6	307.5	304.7	302.1	300.0	297.6
37.5°	307.5	307.3	305.8	303.5	299.7	295.5	290.5	284.4	278.3	271.7	265.3
40°	293.4	292.7	291.5	288.2	283.9	278.8	272.2	264.6	254.7	244.6	234.2
42.5°	269.3	269.6	268.1	265.6	261.6	256.6	249.8	241.5	230.9	218.9	205.5
45°	241.3	241.3	240.8	238.7	235.9	231.9	226.7	219.8	209.5	197.2	182.8
47.5°	212.1	212.3	211.6	211.1	209.9	207.4	203.6	198.4	191.1	179.3	164.9
50°	182.4	182.4	183.6	183.3	183.3	182.4	180.7	177.7	171.3	161.9	148.5
52.5°	152.7	153.2	153.9	154.8	156.0	157.9	156.0	154.6	150.6	143.3	131.7
55°	122.1	122.5	123.7	125.4	126.8	128.7	129.1	129.1	127.0	122.1	113.3
57.5°	95.9	95.2	96.1	97.6	99.4	101.3	102.7	104.4	104.1	100.9	93.8
60°	72.1	72.3	73.0	74.5	75.9	77.5	79.4	80.8	81.5	79.9	75.4
62.5°	52.5	52.5	53.5	54.9	55.6	58.0	59.1	59.9	60.6	60.3	57.5
65°	36.8	37.2	37.7	38.4	39.1	40.5	41.2	42.6	43.1	43.4	41.2
67.5°	25.9	25.2	25.7	26.2	26.9	27.8	29.2	29.2	29.9	29.9	28.5
70°	16.5	16.5	16.7	17.4	17.9	18.1	18.6	19.1	19.8	19.6	19.6
72.5°	11.1	10.8	11.1	11.3	11.5	12.3	12.3	12.5	13.0	13.2	12.3
75°	5.7	5.9	6.4	6.1	6.8	6.4	6.6	7.3	7.1	6.6	6.6
77.5°	4.7	4.7	4.7	4.5	4.9	4.9	4.7	5.2	4.9	4.9	4.7
80°	3.3	3.5	3.3	3.1	3.3	3.1	3.1	3.1	3.1	3.1	2.8
82.5°	2.6	2.1	2.4	2.1	2.4	2.4	2.1	1.9	1.9	2.1	1.9
85°	1.9	1.4	1.6	1.6	1.4	1.4	1.4	1.4	1.4	1.2	1.2
87.5°	1.2	0.7	0.7	0.7	0.9	0.9	0.9	0.7	0.9	0.9	0.5
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°	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0
2.5°	439.7	439.5	439.9	439.7	439.7	439.5	439.7	439.5	439.9	439.0	439.2
5°	439.7	439.2	439.5	439.7	439.9	439.5	439.5	439.5	439.9	439.5	439.7
7.5°	438.7	438.5	439.2	439.7	439.5	439.2	439.7	439.5	439.9	439.7	440.2
10°	436.9	437.1	437.6	438.3	438.5	438.7	439.2	439.2	439.9	439.0	439.5
12.5°	434.0	435.0	436.2	436.6	437.6	437.6	438.0	438.3	438.7	438.5	439.2
15°	430.5	431.7	433.1	434.3	435.4	436.2	436.9	437.1	437.8	437.1	437.3
17.5°	426.3	427.7	429.8	431.2	433.1	433.8	434.7	435.2	435.9	435.4	435.7
20°	420.4	422.0	424.4	426.5	427.7	429.3	430.5	431.2	431.7	431.2	431.4
22.5°	412.1	414.5	417.5	419.2	421.5	423.0	423.2	424.8	426.0	424.8	425.3
25°	402.5	404.8	407.2	410.7	412.8	414.5	416.1	416.4	417.5	417.3	417.1
27.5°	386.4	389.5	393.5	396.3	399.2	401.8	403.6	404.1	405.3	404.8	405.0
30°	364.5	367.8	371.6	376.1	380.1	382.7	385.0	386.7	387.8	387.1	386.9
32.5°	333.4	336.7	340.7	345.2	349.9	353.7	356.5	358.6	360.0	359.6	358.4
35°	297.8	298.8	301.4	304.9	308.9	312.9	315.5	317.9	319.5	320.0	320.0
37.5°	261.3	258.3	256.4	256.4	258.7	260.4	262.7	264.1	266.7	267.7	268.4
40°	226.0	218.9	212.3	207.4	204.1	203.8	203.8	204.5	206.9	209.9	212.8
42.5°	194.4	183.1	173.0	163.8	157.2	153.4	151.7	152.0	153.9	156.7	161.4
45°	169.2	155.0	142.3	131.2	122.3	116.4	113.6	113.3	114.8	118.0	123.2
47.5°	149.6	134.5	120.2	107.4	97.8	91.4	88.1	87.2	88.1	91.2	97.3
50°	133.4	117.8	103.0	89.8	79.4	72.8	69.7	68.6	69.7	72.3	78.5
52.5°	118.3	102.3	88.4	75.6	64.6	58.9	55.6	54.9	55.6	58.7	63.6
55°	100.9	87.2	73.5	60.8	51.1	45.5	42.9	42.2	42.9	45.7	50.9
57.5°	83.7	71.9	59.9	48.3	40.1	35.1	32.8	31.8	33.5	35.3	41.5
60°	67.6	58.2	48.1	37.9	31.1	26.6	24.7	24.5	25.0	27.3	31.6
62.5°	53.0	45.2	37.2	29.0	23.3	21.4	19.1	18.9	19.3	20.7	24.0
65°	38.2	33.2	27.1	21.2	16.7	14.1	13.2	13.4	13.9	14.8	17.9
67.5°	26.6	23.1	18.9	14.8	11.5	10.4	9.4	9.2	9.4	11.1	12.7
70°	17.9	15.8	12.7	11.3	8.0	6.4	6.6	5.9	6.8	6.8	8.2
72.5°	11.8	10.4	8.5	6.6	5.7	4.5	4.5	4.2	4.7	4.9	6.1
75°	6.1	4.7	4.7	3.3	2.4	1.2	2.1	1.9	1.6	1.9	2.4
77.5°	4.2	3.5	3.3	2.6	2.4	1.9	1.9	1.9	1.9	2.1	2.4
80°	2.6	2.6	1.9	1.6	1.4	1.2	1.4	1.4	1.4	1.4	1.6
82.5°	1.6	1.4	1.4	1.2	1.2	0.9	0.9	0.9	0.9	0.9	1.4
85°	1.4	0.9	0.9	0.7	0.9	1.6	0.7	0.9	0.9	0.9	0.7
87.5°	0.5	0.7	0.7	0.7	0.5	0.2	0.5	0.7	0.7	1.2	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0
2.5°	439.7	439.9	439.9	439.7	439.7	439.2	440.2	439.5	439.7	440.6	439.9
5°	440.2	440.4	440.4	440.2	440.2	440.2	440.4	440.4	440.2	439.9	440.4
7.5°	441.1	440.9	440.9	440.4	440.4	439.9	440.4	439.7	440.2	439.7	440.4
10°	439.9	440.2	439.9	439.7	439.7	439.5	439.5	438.7	439.0	438.3	438.7
12.5°	439.2	439.0	439.0	438.5	438.0	437.6	437.3	436.6	436.6	435.0	435.7
15°	437.3	437.6	436.9	435.9	435.4	434.3	433.8	432.9	431.9	430.7	431.0
17.5°	435.7	435.0	434.0	433.1	431.2	430.3	429.3	427.9	427.4	426.0	425.6
20°	430.7	430.3	429.1	427.4	426.3	424.1	423.2	421.8	420.6	419.2	418.5
22.5°	424.4	423.9	422.5	420.8	419.0	418.0	417.1	414.5	413.3	411.9	411.6
25°	416.4	415.7	414.2	412.4	411.4	408.8	407.9	406.0	405.5	404.1	403.9
27.5°	404.1	403.2	401.5	399.2	397.5	395.9	394.9	393.5	393.0	391.6	391.4
30°	385.7	384.5	381.2	380.3	377.5	375.8	375.8	373.9	374.2	373.2	373.2
32.5°	356.7	354.9	352.3	350.4	348.5	347.6	347.6	346.8	347.3	347.3	347.8
35°	318.3	315.7	314.3	313.2	313.2	314.1	316.9	317.6	319.0	320.2	321.2
37.5°	269.1	268.9	270.5	271.9	275.5	279.5	284.4	288.6	292.7	295.5	298.3
40°	215.8	221.7	226.4	233.0	238.5	246.2	255.2	262.5	269.3	274.3	279.5
42.5°	168.5	176.0	185.9	195.6	205.2	215.8	227.6	237.8	246.7	253.5	259.0
45°	131.2	141.6	153.6	165.9	178.4	191.6	203.8	214.2	223.6	230.7	236.1
47.5°	105.8	117.1	130.8	144.2	158.3	172.2	185.9	194.9	202.6	208.3	213.2
50°	87.4	99.4	113.8	129.1	143.3	157.2	168.9	177.7	184.0	189.0	192.0
52.5°	73.0	85.8	101.1	116.4	130.5	143.3	153.9	160.5	165.6	169.2	172.0
55°	60.3	72.6	86.9	101.3	115.2	127.2	136.0	140.9	144.9	147.0	148.7
57.5°	49.2	60.6	73.8	86.9	99.0	108.9	115.7	120.6	122.5	124.2	123.9
60°	38.6	49.2	61.3	72.6	82.9	91.0	95.9	98.7	100.1	100.9	100.4
62.5°	30.4	40.1	49.2	59.1	66.7	73.5	78.2	78.2	78.9	79.2	79.9
65°	22.6	29.9	37.9	45.2	51.4	55.8	58.4	59.1	60.1	59.9	59.4
67.5°	16.7	22.2	28.0	33.5	37.7	40.5	42.4	44.1	43.8	43.4	43.1
70°	11.5	15.1	20.3	23.6	26.6	29.5	29.9	30.2	30.4	30.6	30.2
72.5°	8.0	10.6	13.4	16.3	18.1	19.3	20.5	20.7	20.7	20.7	20.5
75°	4.0	5.4	8.0	9.2	10.8	11.3	12.3	12.3	13.0	12.0	11.8
77.5°	3.5	4.2	5.7	6.6	7.3	8.0	8.2	9.0	8.7	8.2	8.5
80°	2.1	2.6	3.5	4.0	4.9	5.2	5.4	5.7	5.4	5.7	5.7
82.5°	1.6	1.9	2.4	2.4	3.1	3.1	3.3	3.3	3.5	3.5	3.5
85°	0.9	1.6	1.4	2.8	1.9	1.9	2.4	2.8	2.4	2.4	2.8
87.5°	0.9	0.9	0.7	0.9	0.9	0.9	1.2	1.4	1.4	1.6	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):**

	165°	170°	175°	180°
0°	439.0	439.0	439.0	439.0
2.5°	439.7	440.2	439.5	439.2
5°	440.4	440.4	439.9	439.9
7.5°	440.4	440.4	439.7	439.2
10°	438.5	438.5	437.8	437.3
12.5°	435.0	435.0	434.7	434.0
15°	430.5	430.5	429.6	428.8
17.5°	424.4	424.8	423.7	423.7
20°	417.8	417.5	416.6	416.1
22.5°	410.9	410.5	410.2	408.8
25°	403.6	403.2	402.5	401.8
27.5°	391.1	390.9	390.2	389.3
30°	372.1	371.8	370.9	370.9
32.5°	347.3	347.1	346.1	346.4
35°	321.6	322.6	322.1	321.2
37.5°	300.2	300.9	301.4	300.9
40°	282.3	284.4	284.6	285.1
42.5°	263.2	266.0	267.0	267.4
45°	240.3	242.9	245.1	244.6
47.5°	217.0	218.9	220.8	219.4
50°	194.6	195.8	196.5	196.5
52.5°	173.4	173.4	173.2	173.4
55°	149.2	149.2	148.2	148.7
57.5°	123.7	124.2	123.5	122.3
60°	100.1	99.0	98.5	97.8
62.5°	78.0	78.0	76.3	78.5
65°	58.4	57.7	57.0	56.8
67.5°	42.4	42.2	41.5	41.2
70°	29.9	29.0	28.7	28.3
72.5°	20.0	20.0	19.6	19.6
75°	12.3	11.1	10.8	11.1
77.5°	8.5	8.2	8.2	8.0
80°	5.7	5.4	5.9	5.2
82.5°	3.5	3.8	3.5	3.8
85°	2.4	2.8	2.6	2.6
87.5°	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)