

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: P246090

Luminaire Tested: **LSR8B10D010 EC8B10927 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246090  
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 EC8B10927 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 885.4 lumens  
Efficiency: N/A  
Efficacy: 86.8 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

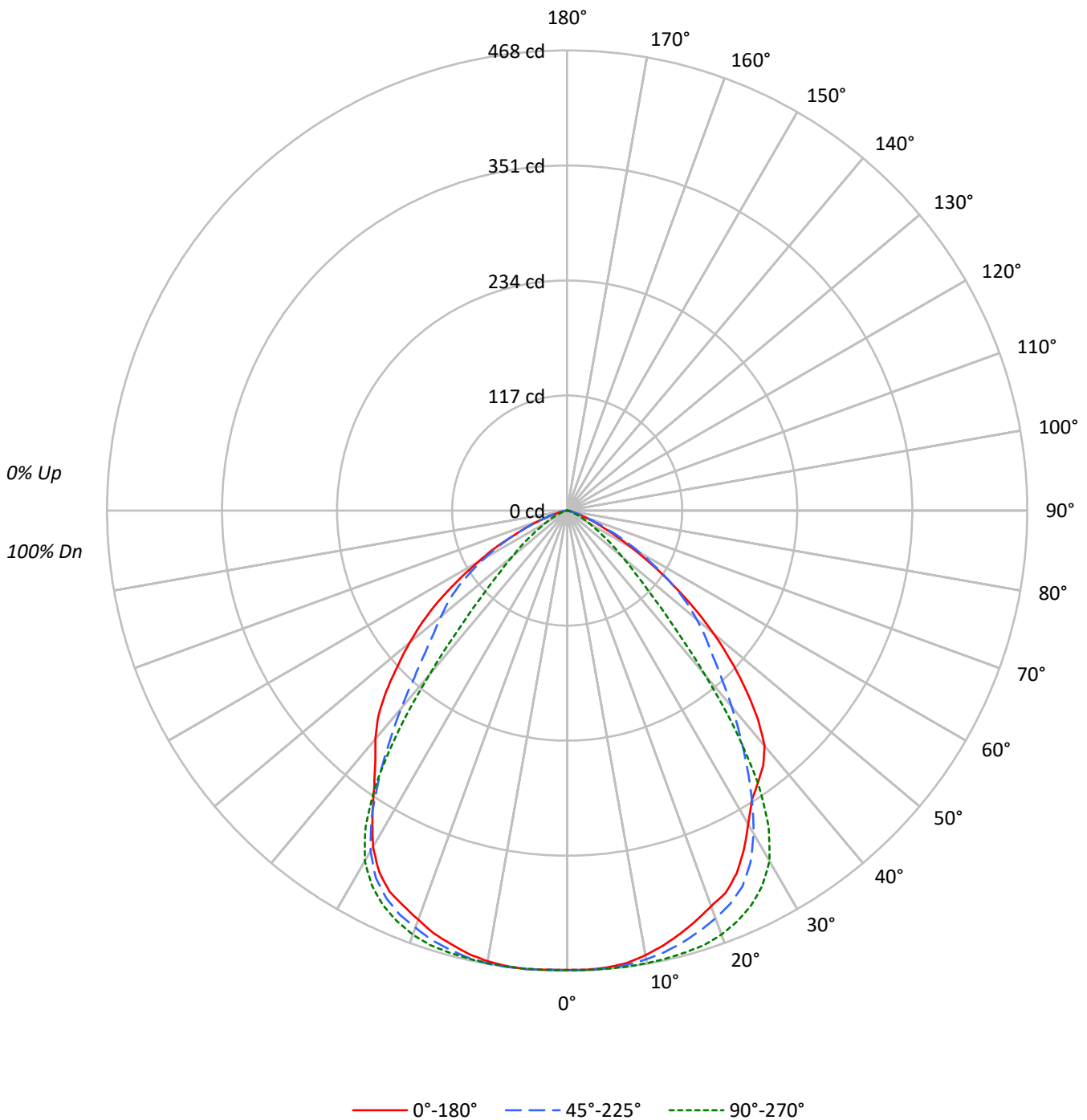
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	14404	14404	14404
5°	14437	14477	14490
10°	14375	14635	14573
15°	14216	14851	14570
20°	14048	15059	14531
25°	13865	15073	14545
30°	13114	14652	14054
35°	12728	12735	12867
40°	12567	8763	12213
45°	11194	5259	11351
50°	9312	3502	10031
55°	6984	2414	8505
60°	4730	1610	6420
65°	2860	1043	4407
70°	1587	568	2705
75°	727	238	1406
80°	622	266	977
85°	708	354	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	5.0
10°-20°	129.5	14.6
20°-30°	196.5	22.2
30°-40°	206.4	23.3
40°-50°	154.7	17.5
50°-60°	99.3	11.2
60°-70°	42.5	4.8
70°-80°	10.0	1.1
80°-90°	1.9	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°	370.6	41.9
0°-40°	577.0	65.2
0°-60°	831.0	93.9
0°-90°	885.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	467	467	467	467	467	
5°	466	467	468	468	468	44
15°	445	455	465	462	456	126
25°	408	422	443	435	428	186
35°	338	319	338	334	342	212
45°	257	210	121	204	260	197
55°	130	130	45	136	158	118
65°	39	46	14	59	60	42
75°	6	7	2	12	12	9
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°	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1
2.5°	467.4	467.9	467.7	467.7	467.4	467.7	467.7	468.1	468.1	467.7	467.4
5°	466.4	466.9	466.9	466.4	466.4	467.7	466.9	467.4	467.4	467.1	467.1
7.5°	464.2	464.2	465.2	464.4	464.4	465.2	464.8	465.4	465.9	466.1	466.1
10°	459.1	459.7	459.9	459.9	460.1	460.9	461.4	462.4	462.8	463.4	463.6
12.5°	452.8	453.6	453.8	453.6	454.4	455.4	456.6	457.9	458.7	459.7	460.4
15°	445.3	445.3	445.8	446.6	447.1	448.5	449.9	451.4	453.4	454.6	455.8
17.5°	437.1	437.5	438.3	438.3	439.3	441.8	442.6	444.8	447.1	448.3	450.9
20°	428.1	428.5	429.3	429.8	431.0	433.0	434.6	436.5	439.1	441.3	443.8
22.5°	421.0	420.0	420.5	421.0	422.2	424.0	425.8	428.3	430.8	433.0	435.6
25°	407.5	407.7	408.5	408.9	410.5	412.0	414.0	417.0	419.3	421.8	424.5
27.5°	389.1	389.4	390.7	390.7	392.0	394.4	395.7	398.1	401.2	403.7	406.9
30°	368.3	368.9	368.9	369.9	370.6	371.8	373.2	375.6	377.1	379.3	383.8
32.5°	349.3	349.8	349.5	349.3	348.5	348.3	348.1	348.5	349.1	349.8	351.6
35°	338.1	336.7	335.7	334.0	332.0	329.5	327.3	324.2	321.4	319.2	316.7
37.5°	327.3	326.9	325.5	323.0	318.9	314.4	309.2	302.6	296.1	289.1	282.4
40°	312.2	311.4	310.2	306.7	302.2	296.7	289.6	281.6	271.0	260.3	249.2
42.5°	286.7	286.9	285.3	282.6	278.3	273.0	265.8	257.1	245.7	233.0	218.7
45°	256.7	256.7	256.3	254.0	251.0	246.7	241.2	234.0	222.9	209.9	194.6
47.5°	225.7	225.9	225.1	224.7	223.4	220.6	216.7	211.2	203.4	190.8	175.5
50°	194.1	194.1	195.3	195.1	195.1	194.1	192.4	189.1	182.2	172.2	158.0
52.5°	162.5	163.0	163.7	164.7	165.9	168.0	165.9	164.5	160.2	152.4	140.2
55°	129.9	130.4	131.6	133.4	134.9	136.9	137.4	137.4	135.1	129.9	120.6
57.5°	102.0	101.2	102.3	103.8	105.9	107.8	109.4	111.0	110.8	107.3	99.8
60°	76.7	77.0	77.7	79.2	80.8	82.5	84.5	86.0	86.7	85.0	80.2
62.5°	55.9	55.9	56.9	58.4	59.2	61.6	62.9	63.7	64.5	64.2	61.2
65°	39.2	39.6	40.2	40.8	41.6	43.1	43.9	45.3	45.9	46.1	43.9
67.5°	27.6	26.8	27.3	27.8	28.6	29.6	31.0	31.0	31.8	31.8	30.4
70°	17.6	17.6	17.8	18.6	19.0	19.3	19.8	20.4	21.0	20.8	20.8
72.5°	11.8	11.6	11.8	12.0	12.3	13.0	13.0	13.3	13.8	14.1	13.0
75°	6.1	6.3	6.8	6.5	7.3	6.8	7.0	7.8	7.5	7.0	7.0
77.5°	5.1	5.1	5.1	4.7	5.3	5.3	5.1	5.5	5.3	5.3	5.1
80°	3.5	3.7	3.5	3.3	3.5	3.3	3.3	3.3	3.3	3.3	3.0
82.5°	2.8	2.2	2.5	2.2	2.5	2.5	2.2	2.0	2.0	2.2	2.0
85°	2.0	1.5	1.8	1.8	1.5	1.5	1.5	1.5	1.5	1.2	1.2
87.5°	1.2	0.8	0.8	0.8	1.0	1.0	1.0	0.8	1.0	1.0	0.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1
2.5°	467.9	467.7	468.1	467.9	467.9	467.7	467.9	467.7	468.1	467.1	467.4
5°	467.9	467.4	467.7	467.9	468.1	467.7	467.7	467.7	468.1	467.7	467.9
7.5°	466.9	466.6	467.4	467.9	467.7	467.4	467.9	467.7	468.1	467.9	468.3
10°	464.8	465.2	465.6	466.4	466.6	466.9	467.4	467.4	468.1	467.1	467.7
12.5°	461.9	462.8	464.2	464.6	465.6	465.6	466.1	466.4	466.9	466.6	467.4
15°	458.1	459.3	460.9	462.2	463.4	464.2	464.8	465.2	465.9	465.2	465.4
17.5°	453.6	455.1	457.3	458.9	460.9	461.6	462.6	463.2	463.8	463.4	463.6
20°	447.3	449.1	451.6	453.8	455.1	456.9	458.1	458.9	459.3	458.9	459.1
22.5°	438.5	441.1	444.4	446.1	448.5	450.1	450.3	452.1	453.4	452.1	452.6
25°	428.3	430.8	433.2	437.1	439.3	441.1	442.8	443.0	444.4	444.0	443.8
27.5°	411.2	414.4	418.7	421.8	424.8	427.5	429.5	430.0	431.3	430.8	431.0
30°	387.9	391.4	395.4	400.2	404.4	407.2	409.7	411.5	412.8	412.0	411.8
32.5°	354.8	358.3	362.6	367.3	372.4	376.3	379.3	381.6	383.2	382.6	381.4
35°	316.9	317.9	320.7	324.4	328.7	333.0	335.7	338.3	340.0	340.5	340.5
37.5°	278.1	274.8	272.8	272.8	275.3	277.1	279.6	281.1	283.8	284.8	285.6
40°	240.4	233.0	225.9	220.6	217.1	216.9	216.9	217.7	220.2	223.4	226.5
42.5°	206.9	194.8	184.0	174.3	167.3	163.2	161.4	161.8	163.7	166.7	171.8
45°	180.0	165.0	151.4	139.6	130.2	123.9	120.8	120.6	122.1	125.7	131.2
47.5°	159.2	143.2	127.9	114.3	104.1	97.3	93.8	92.8	93.8	97.1	103.6
50°	142.0	125.3	109.6	95.5	84.5	77.5	74.2	73.0	74.2	77.0	83.5
52.5°	125.9	108.8	94.0	80.4	68.7	62.7	59.2	58.4	59.2	62.4	67.7
55°	107.3	92.8	78.2	64.7	54.4	48.4	45.7	44.9	45.7	48.6	54.1
57.5°	89.0	76.5	63.7	51.4	42.6	37.4	34.9	33.9	35.6	37.6	44.1
60°	72.0	62.0	51.2	40.4	33.1	28.4	26.3	26.1	26.6	29.1	33.6
62.5°	56.5	48.2	39.6	30.8	24.9	22.8	20.4	20.0	20.6	22.0	25.5
65°	40.6	35.3	28.8	22.6	17.8	15.1	14.1	14.3	14.7	15.8	19.0
67.5°	28.4	24.5	20.0	15.8	12.3	11.0	10.0	9.8	10.0	11.8	13.5
70°	19.0	16.8	13.5	12.0	8.5	6.8	7.0	6.3	7.3	7.3	8.8
72.5°	12.5	11.0	9.0	7.0	6.1	4.7	4.7	4.5	5.1	5.3	6.5
75°	6.5	5.1	5.1	3.5	2.5	1.2	2.2	2.0	1.8	2.0	2.5
77.5°	4.5	3.7	3.5	2.8	2.5	2.0	2.0	2.0	2.0	2.2	2.5
80°	2.8	2.8	2.0	1.8	1.5	1.2	1.5	1.5	1.5	1.5	1.8
82.5°	1.8	1.5	1.5	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.5
85°	1.5	1.0	1.0	0.8	1.0	1.8	0.8	1.0	1.0	1.0	0.8
87.5°	0.4	0.8	0.8	0.8	0.4	0.2	0.4	0.8	0.8	1.2	1.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1
2.5°	467.9	468.1	468.1	467.9	467.9	467.4	468.3	467.7	467.9	468.9	468.1
5°	468.3	468.7	468.7	468.3	468.3	468.3	468.7	468.7	468.3	468.1	468.7
7.5°	469.4	469.1	469.1	468.7	468.7	468.1	468.7	467.9	468.3	467.9	468.7
10°	468.1	468.3	468.1	467.9	467.9	467.7	467.7	466.9	467.1	466.4	466.9
12.5°	467.4	467.1	467.1	466.6	466.1	465.6	465.4	464.6	464.6	462.8	463.6
15°	465.4	465.6	464.8	463.8	463.4	462.2	461.6	460.6	459.7	458.3	458.7
17.5°	463.6	462.8	461.9	460.9	458.9	457.9	456.9	455.4	454.8	453.4	452.8
20°	458.3	457.9	456.6	454.8	453.6	451.4	450.3	448.9	447.6	446.1	445.3
22.5°	451.6	451.1	449.6	447.9	445.8	444.8	443.8	441.1	439.8	438.3	438.1
25°	443.0	442.4	440.8	438.9	437.8	435.0	434.0	432.0	431.6	430.0	429.8
27.5°	430.0	429.1	427.3	424.8	423.0	421.2	420.3	418.7	418.3	416.7	416.5
30°	410.5	409.2	405.7	404.7	401.7	399.9	399.9	397.9	398.1	397.2	397.2
32.5°	379.7	377.7	374.8	372.8	370.8	369.9	369.9	369.1	369.6	369.6	370.1
35°	338.7	336.0	334.5	333.2	333.2	334.2	337.3	338.1	339.5	340.8	341.8
37.5°	286.3	286.1	287.9	289.3	293.2	297.3	302.6	307.1	311.4	314.4	317.5
40°	229.7	235.9	241.0	248.0	253.8	262.0	271.6	279.3	286.7	291.8	297.3
42.5°	179.3	187.3	197.9	208.1	218.4	229.7	242.2	253.0	262.6	269.8	275.6
45°	139.6	150.8	163.5	176.5	189.8	203.8	216.9	227.9	237.9	245.5	251.2
47.5°	112.6	124.6	139.2	153.5	168.5	183.3	197.9	207.3	215.7	221.6	226.9
50°	93.0	105.9	121.2	137.4	152.4	167.3	179.8	189.1	195.9	201.2	204.4
52.5°	77.7	91.2	107.6	123.9	138.9	152.4	163.7	170.8	176.3	180.0	183.0
55°	64.2	77.3	92.5	107.8	122.6	135.5	144.7	150.0	154.2	156.5	158.2
57.5°	52.4	64.5	78.5	92.5	105.3	115.9	123.1	128.4	130.4	132.2	131.8
60°	41.2	52.4	65.2	77.3	88.3	96.8	102.0	105.1	106.5	107.3	106.8
62.5°	32.4	42.6	52.4	62.9	71.0	78.2	83.2	83.2	84.0	84.3	85.0
65°	24.1	31.8	40.4	48.2	54.7	59.4	62.2	62.9	63.9	63.7	63.2
67.5°	17.8	23.6	29.8	35.6	40.2	43.1	45.1	46.9	46.7	46.1	45.9
70°	12.3	16.1	21.6	25.1	28.4	31.4	31.8	32.1	32.4	32.6	32.1
72.5°	8.5	11.2	14.3	17.3	19.3	20.6	21.8	22.0	22.0	22.0	21.8
75°	4.3	5.7	8.5	9.8	11.6	12.0	13.0	13.0	13.8	12.8	12.5
77.5°	3.7	4.5	6.1	7.0	7.8	8.5	8.8	9.6	9.2	8.8	9.0
80°	2.2	2.8	3.7	4.3	5.3	5.5	5.7	6.1	5.7	6.1	6.1
82.5°	1.8	2.0	2.5	2.5	3.3	3.3	3.5	3.5	3.7	3.7	3.7
85°	1.0	1.8	1.5	3.0	2.0	2.0	2.5	3.0	2.5	2.5	3.0
87.5°	1.0	1.0	0.8	1.0	1.0	1.0	1.2	1.5	1.5	1.8	1.5
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):**

	165°	170°	175°	180°
0°	467.1	467.1	467.1	467.1
2.5°	467.9	468.3	467.7	467.4
5°	468.7	468.7	468.1	468.1
7.5°	468.7	468.7	467.9	467.4
10°	466.6	466.6	465.9	465.4
12.5°	462.8	462.8	462.6	461.9
15°	458.1	458.1	457.1	456.4
17.5°	451.6	452.1	450.9	450.9
20°	444.6	444.4	443.4	442.8
22.5°	437.3	436.8	436.5	435.0
25°	429.5	429.1	428.3	427.5
27.5°	416.2	416.0	415.2	414.2
30°	395.9	395.7	394.7	394.7
32.5°	369.6	369.3	368.3	368.6
35°	342.2	343.2	342.8	341.8
37.5°	319.5	320.2	320.7	320.2
40°	300.4	302.6	302.8	303.4
42.5°	280.1	283.0	284.1	284.6
45°	255.7	258.5	260.8	260.3
47.5°	231.0	233.0	234.9	233.4
50°	207.1	208.4	209.1	209.1
52.5°	184.5	184.5	184.3	184.5
55°	158.7	158.7	157.7	158.2
57.5°	131.6	132.2	131.4	130.2
60°	106.5	105.3	104.8	104.1
62.5°	83.0	83.0	81.2	83.5
65°	62.2	61.4	60.6	60.4
67.5°	45.1	44.9	44.1	43.9
70°	31.8	30.8	30.6	30.0
72.5°	21.3	21.3	20.8	20.8
75°	13.0	11.8	11.6	11.8
77.5°	9.0	8.8	8.8	8.5
80°	6.1	5.7	6.3	5.5
82.5°	3.7	4.0	3.7	4.0
85°	2.5	3.0	2.8	2.8
87.5°	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)