

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: P246030

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246030
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 EC8B10827 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1060.0 lumens
Efficiency: N/A
Efficacy: 103.9 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

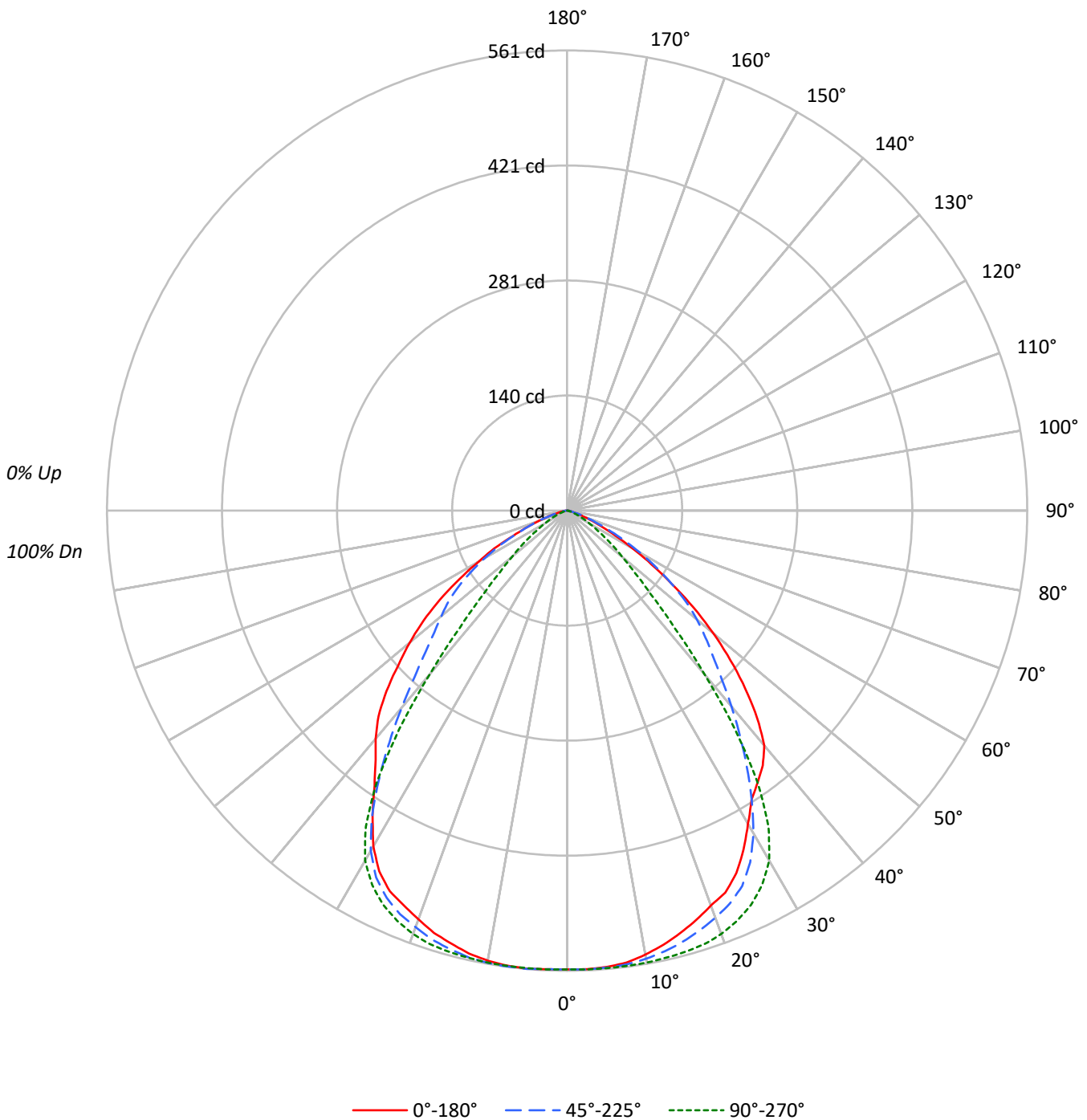
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17247	17247	17247
5°	17285	17331	17350
10°	17212	17522	17447
15°	17022	17779	17443
20°	16815	18029	17399
25°	16597	18050	17414
30°	15703	17540	16824
35°	15235	15246	15404
40°	15047	10490	14620
45°	13405	6297	13589
50°	11149	4193	12012
55°	8360	2887	10182
60°	5668	1924	7684
65°	3415	1248	5275
70°	1893	676	3246
75°	858	286	1680
80°	746	320	1172
85°	849	425	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	5.0
10°-20°	155.0	14.6
20°-30°	235.3	22.2
30°-40°	247.1	23.3
40°-50°	185.3	17.5
50°-60°	118.9	11.2
60°-70°	50.8	4.8
70°-80°	12.0	1.1
80°-90°	2.2	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°	443.7	41.9
0°-40°	690.8	65.2
0°-60°	994.9	93.9
0°-90°	1060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1060.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	559	559	559	559	559	
5°	558	559	560	561	560	53
15°	533	544	557	553	546	150
25°	488	505	530	521	512	223
35°	405	382	405	400	409	254
45°	307	251	144	244	312	235
55°	156	156	54	162	189	141
65°	47	55	17	71	72	50
75°	7	8	2	14	14	10
85°	2	2	1	2	3	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°	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3
2.5°	559.6	560.2	559.9	559.9	559.6	559.9	559.9	560.5	560.5	559.9	559.6
5°	558.4	559.0	559.0	558.4	558.4	559.9	559.0	559.6	559.6	559.3	559.3
7.5°	555.7	555.7	556.9	556.0	556.0	556.9	556.6	557.2	557.8	558.1	558.1
10°	549.7	550.3	550.6	550.6	550.9	551.8	552.4	553.6	554.2	554.8	555.1
12.5°	542.2	543.1	543.4	543.1	544.0	545.2	546.7	548.2	549.1	550.3	551.2
15°	533.2	533.2	533.8	534.7	535.3	537.1	538.6	540.4	542.8	544.3	545.8
17.5°	523.3	523.9	524.8	524.8	526.0	529.0	529.9	532.6	535.3	536.8	539.8
20°	512.4	513.0	513.9	514.6	516.0	518.5	520.3	522.7	525.7	528.4	531.4
22.5°	504.0	502.8	503.4	504.0	505.5	507.6	509.7	512.7	515.7	518.5	521.5
25°	487.8	488.1	489.0	489.6	491.4	493.2	495.6	499.2	501.9	504.9	508.2
27.5°	465.9	466.2	467.7	467.7	469.2	472.2	473.7	476.7	480.3	483.3	487.2
30°	441.0	441.6	441.6	442.8	443.7	445.2	446.7	449.7	451.5	454.2	459.6
32.5°	418.2	418.8	418.5	418.2	417.3	417.0	416.7	417.3	417.9	418.8	420.9
35°	404.7	403.2	402.0	399.9	397.5	394.5	391.8	388.2	384.9	382.2	379.2
37.5°	391.8	391.5	389.7	386.7	381.9	376.5	370.2	362.3	354.5	346.1	338.0
40°	373.8	372.8	371.4	367.1	361.7	355.1	346.7	337.1	324.5	311.6	298.4
42.5°	343.1	343.4	341.6	338.3	333.2	326.9	318.2	307.7	294.2	278.9	261.8
45°	307.4	307.4	306.8	304.1	300.5	295.4	288.8	280.1	266.9	251.3	233.0
47.5°	270.2	270.5	269.6	269.0	267.5	264.2	259.4	252.8	243.5	228.5	210.1
50°	232.4	232.4	233.9	233.6	233.6	232.4	230.3	226.4	218.2	206.2	189.1
52.5°	194.5	195.1	196.0	197.2	198.7	201.1	198.7	196.9	191.8	182.5	167.8
55°	155.5	156.1	157.6	159.7	161.5	163.9	164.5	164.5	161.8	155.5	144.4
57.5°	122.2	121.3	122.5	124.3	126.7	129.1	130.9	133.0	132.7	128.5	119.5
60°	91.9	92.2	93.1	94.9	96.7	98.8	101.2	103.0	103.9	101.8	96.1
62.5°	66.9	66.9	68.1	69.9	70.8	73.9	75.3	76.3	77.1	76.8	73.2
65°	46.8	47.4	48.0	48.9	49.8	51.6	52.5	54.3	54.9	55.2	52.5
67.5°	33.0	32.1	32.7	33.3	34.2	35.4	37.2	37.2	38.1	38.1	36.3
70°	21.0	21.0	21.3	22.2	22.8	23.1	23.7	24.3	25.2	24.9	24.9
72.5°	14.1	13.8	14.1	14.4	14.7	15.6	15.6	15.9	16.5	16.8	15.6
75°	7.2	7.5	8.1	7.8	8.7	8.1	8.4	9.3	9.0	8.4	8.4
77.5°	6.0	6.0	6.0	5.7	6.3	6.3	6.0	6.6	6.3	6.3	6.0
80°	4.2	4.5	4.2	3.9	4.2	3.9	3.9	3.9	3.9	3.9	3.6
82.5°	3.3	2.7	3.0	2.7	3.0	3.0	2.7	2.4	2.4	2.7	2.4
85°	2.4	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.8	1.5	1.5
87.5°	1.5	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	0.6
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°	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3
2.5°	560.2	559.9	560.5	560.2	560.2	559.9	560.2	559.9	560.5	559.3	559.6
5°	560.2	559.6	559.9	560.2	560.5	559.9	559.9	559.9	560.5	559.9	560.2
7.5°	559.0	558.7	559.6	560.2	559.9	559.6	560.2	559.9	560.5	560.2	560.8
10°	556.6	556.9	557.5	558.4	558.7	559.0	559.6	559.6	560.5	559.3	559.9
12.5°	553.0	554.2	555.7	556.3	557.5	557.5	558.1	558.4	559.0	558.7	559.6
15°	548.5	550.0	551.8	553.3	554.8	555.7	556.6	556.9	557.8	556.9	557.2
17.5°	543.1	544.9	547.6	549.4	551.8	552.7	553.9	554.5	555.4	554.8	555.1
20°	535.6	537.7	540.7	543.4	544.9	547.0	548.5	549.4	550.0	549.4	549.7
22.5°	525.1	528.1	532.0	534.1	537.1	538.9	539.2	541.3	542.8	541.3	541.9
25°	512.7	515.7	518.8	523.3	526.0	528.1	530.2	530.5	532.0	531.7	531.4
27.5°	492.3	496.2	501.3	504.9	508.5	511.8	514.2	514.8	516.3	515.7	516.0
30°	464.4	468.6	473.4	479.1	484.2	487.5	490.5	492.6	494.1	493.2	492.9
32.5°	424.8	429.0	434.1	439.8	445.8	450.6	454.2	456.9	458.7	458.1	456.6
35°	379.5	380.7	384.0	388.5	393.6	398.7	402.0	405.0	407.1	407.7	407.7
37.5°	332.9	329.0	326.6	326.6	329.6	331.7	334.7	336.5	339.8	341.0	341.9
40°	287.9	278.9	270.5	264.2	260.0	259.7	259.7	260.6	263.6	267.5	271.1
42.5°	247.7	233.3	220.3	208.6	200.2	195.4	193.3	193.6	196.0	199.6	205.6
45°	215.5	197.5	181.3	167.2	155.8	148.3	144.7	144.4	146.2	150.4	157.0
47.5°	190.6	171.4	153.1	136.9	124.6	116.5	112.3	111.1	112.3	116.2	124.0
50°	169.9	150.1	131.2	114.4	101.2	92.8	88.9	87.4	88.9	92.2	100.0
52.5°	150.7	130.3	112.6	96.4	82.3	75.0	70.8	69.9	70.8	74.7	81.1
55°	128.5	111.1	93.7	77.5	65.1	57.9	54.6	53.7	54.6	58.2	64.8
57.5°	106.6	91.6	76.3	61.5	51.0	44.7	41.7	40.5	42.6	45.0	52.8
60°	86.2	74.2	61.2	48.3	39.6	33.9	31.5	31.2	31.8	34.8	40.2
62.5°	67.5	57.6	47.4	36.9	29.7	27.3	24.3	24.0	24.6	26.4	30.6
65°	48.6	42.3	34.5	27.0	21.3	18.0	16.8	17.1	17.7	18.9	22.8
67.5°	33.9	29.4	24.0	18.9	14.7	13.2	12.0	11.7	12.0	14.1	16.2
70°	22.8	20.1	16.2	14.4	10.2	8.1	8.4	7.5	8.7	8.7	10.5
72.5°	15.0	13.2	10.8	8.4	7.2	5.7	5.7	5.4	6.0	6.3	7.8
75°	7.8	6.0	6.0	4.2	3.0	1.5	2.7	2.4	2.1	2.4	3.0
77.5°	5.4	4.5	4.2	3.3	3.0	2.4	2.4	2.4	2.4	2.7	3.0
80°	3.3	3.3	2.4	2.1	1.8	1.5	1.8	1.8	1.8	1.8	2.1
82.5°	2.1	1.8	1.8	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.8
85°	1.8	1.2	1.2	0.9	1.2	2.1	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.5	1.2
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°	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3
2.5°	560.2	560.5	560.5	560.2	560.2	559.6	560.8	559.9	560.2	561.4	560.5
5°	560.8	561.1	561.1	560.8	560.8	560.8	561.1	561.1	560.8	560.5	561.1
7.5°	562.0	561.7	561.7	561.1	561.1	560.5	561.1	560.2	560.8	560.2	561.1
10°	560.5	560.8	560.5	560.2	560.2	559.9	559.9	559.0	559.3	558.4	559.0
12.5°	559.6	559.3	559.3	558.7	558.1	557.5	557.2	556.3	556.3	554.2	555.1
15°	557.2	557.5	556.6	555.4	554.8	553.3	552.7	551.5	550.3	548.8	549.1
17.5°	555.1	554.2	553.0	551.8	549.4	548.2	547.0	545.2	544.6	542.8	542.2
20°	548.8	548.2	546.7	544.6	543.1	540.4	539.2	537.4	535.9	534.1	533.2
22.5°	540.7	540.1	538.3	536.2	533.8	532.6	531.4	528.1	526.6	524.8	524.5
25°	530.5	529.6	527.8	525.4	524.2	520.9	519.6	517.2	516.7	514.8	514.6
27.5°	514.8	513.6	511.5	508.5	506.4	504.3	503.1	501.3	500.7	498.9	498.6
30°	491.4	489.9	485.7	484.5	480.9	478.8	478.8	476.4	476.7	475.5	475.5
32.5°	454.5	452.1	448.8	446.4	444.0	442.8	442.8	441.9	442.5	442.5	443.1
35°	405.6	402.3	400.5	399.0	399.0	400.2	403.8	404.7	406.5	408.0	409.2
37.5°	342.8	342.5	344.6	346.4	350.9	356.0	362.3	367.8	372.8	376.5	380.1
40°	275.0	282.5	288.5	296.9	303.8	313.7	325.1	334.4	343.1	349.4	356.0
42.5°	214.6	224.2	236.9	249.2	261.5	275.0	290.0	302.9	314.3	323.0	329.9
45°	167.2	180.4	195.7	211.3	227.3	244.1	259.7	272.9	284.9	293.9	300.8
47.5°	134.8	149.2	166.6	183.7	201.7	219.4	236.9	248.3	258.2	265.4	271.7
50°	111.4	126.7	145.0	164.5	182.5	200.2	215.2	226.4	234.5	240.8	244.7
52.5°	93.1	109.3	128.8	148.3	166.3	182.5	196.0	204.4	211.0	215.5	219.1
55°	76.8	92.5	110.8	129.1	146.8	162.1	173.2	179.5	184.6	187.3	189.4
57.5°	62.7	77.1	94.0	110.8	126.1	138.7	147.4	153.7	156.1	158.2	157.9
60°	49.2	62.7	78.1	92.5	105.7	115.9	122.2	125.8	127.6	128.5	127.9
62.5°	38.7	51.0	62.7	75.3	85.0	93.7	99.7	99.7	100.6	100.9	101.8
65°	28.8	38.1	48.3	57.6	65.4	71.1	74.5	75.3	76.6	76.3	75.7
67.5°	21.3	28.2	35.7	42.6	48.0	51.6	54.0	56.1	55.8	55.2	54.9
70°	14.7	19.2	25.8	30.0	33.9	37.5	38.1	38.4	38.7	39.0	38.4
72.5°	10.2	13.5	17.1	20.7	23.1	24.6	26.1	26.4	26.4	26.4	26.1
75°	5.1	6.9	10.2	11.7	13.8	14.4	15.6	15.6	16.5	15.3	15.0
77.5°	4.5	5.4	7.2	8.4	9.3	10.2	10.5	11.4	11.1	10.5	10.8
80°	2.7	3.3	4.5	5.1	6.3	6.6	6.9	7.2	6.9	7.2	7.2
82.5°	2.1	2.4	3.0	3.0	3.9	3.9	4.2	4.2	4.5	4.5	4.5
85°	1.2	2.1	1.8	3.6	2.4	2.4	3.0	3.6	3.0	3.0	3.6
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.5	1.8	1.8	2.1	1.8
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°	559.3	559.3	559.3	559.3
2.5°	560.2	560.8	559.9	559.6
5°	561.1	561.1	560.5	560.5
7.5°	561.1	561.1	560.2	559.6
10°	558.7	558.7	557.8	557.2
12.5°	554.2	554.2	553.9	553.0
15°	548.5	548.5	547.3	546.4
17.5°	540.7	541.3	539.8	539.8
20°	532.3	532.0	530.8	530.2
22.5°	523.6	523.0	522.7	520.9
25°	514.2	513.6	512.7	511.8
27.5°	498.3	498.0	497.1	495.9
30°	474.0	473.7	472.5	472.5
32.5°	442.5	442.2	441.0	441.3
35°	409.8	411.0	410.4	409.2
37.5°	382.5	383.4	384.0	383.4
40°	359.6	362.3	362.6	363.2
42.5°	335.3	338.9	340.1	340.7
45°	306.2	309.5	312.2	311.6
47.5°	276.5	278.9	281.3	279.5
50°	248.0	249.5	250.4	250.4
52.5°	221.0	221.0	220.7	221.0
55°	190.0	190.0	188.8	189.4
57.5°	157.6	158.2	157.3	155.8
60°	127.6	126.1	125.5	124.6
62.5°	99.4	99.4	97.3	100.0
65°	74.5	73.6	72.6	72.3
67.5°	54.0	53.7	52.8	52.5
70°	38.1	36.9	36.6	36.0
72.5°	25.5	25.5	24.9	24.9
75°	15.6	14.1	13.8	14.1
77.5°	10.8	10.5	10.5	10.2
80°	7.2	6.9	7.5	6.6
82.5°	4.5	4.8	4.5	4.8
85°	3.0	3.6	3.3	3.3
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)