

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: P245502

Luminaire Tested: **LSR8B10D010 EC8B10940 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245502
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 EC8B10940 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1038.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

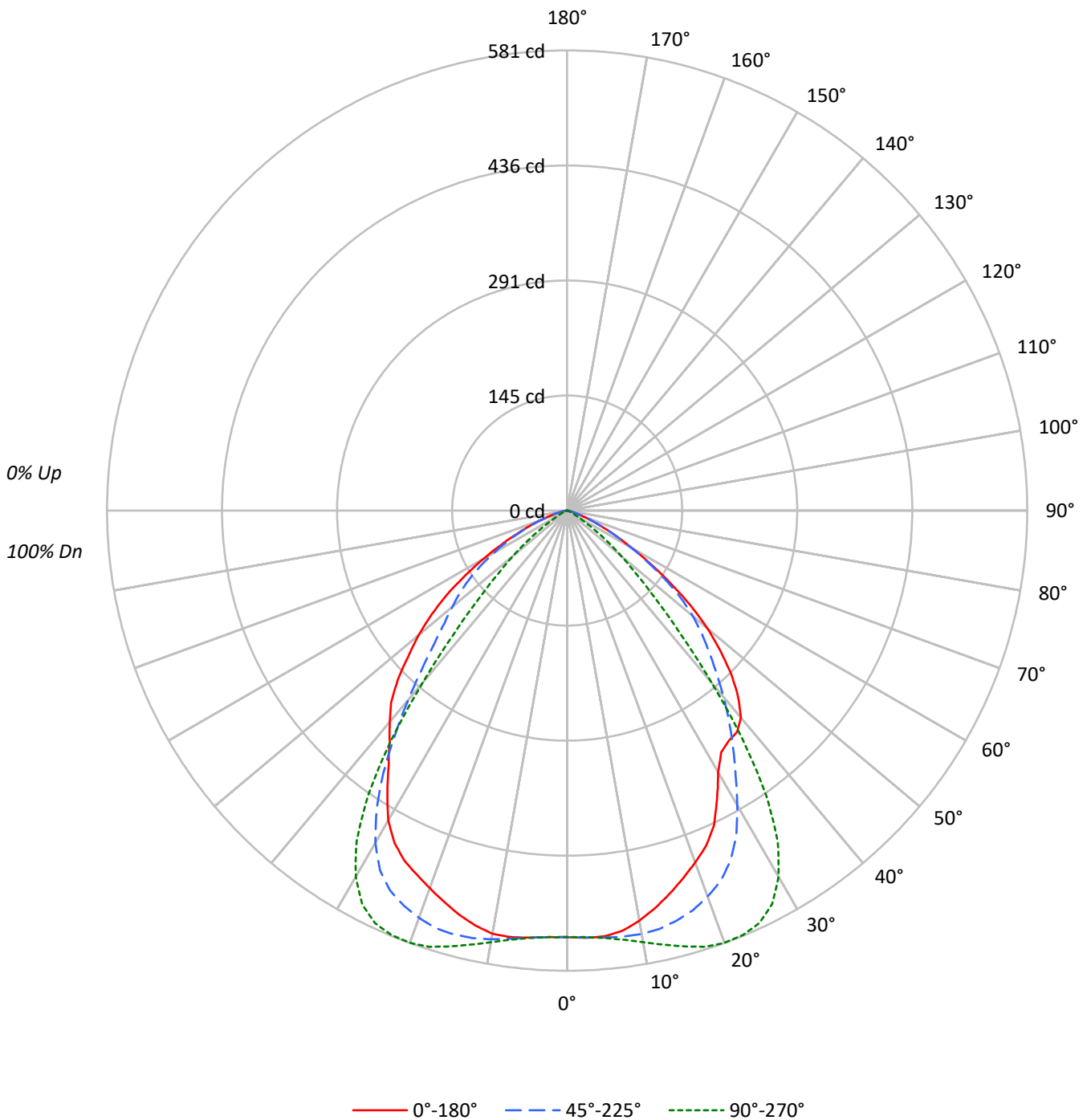
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16605	16605	16605
5°	16703	16765	16749
10°	16458	17325	16987
15°	15978	18184	16853
20°	15512	19059	16647
25°	14916	19547	16570
30°	13577	19010	16080
35°	13375	16473	14794
40°	13739	11424	14024
45°	12791	6903	13187
50°	11091	4265	11749
55°	8510	2226	9973
60°	5797	900	7524
65°	3604	460	5195
70°	1956	279	3174
75°	1025	131	1871
80°	462	160	1012
85°	318	106	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	5.0
10°-20°	153.4	14.8
20°-30°	234.0	22.5
30°-40°	244.2	23.5
40°-50°	183.4	17.7
50°-60°	112.9	10.9
60°-70°	45.9	4.4
70°-80°	10.8	1.0
80°-90°	1.5	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°	439.2	42.3
0°-40°	683.4	65.8
0°-60°	979.8	94.4
0°-90°	1038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	538	538	538	538	538	
5°	540	541	542	541	541	51
15°	500	536	570	554	528	141
25°	438	488	574	529	487	199
35°	355	365	438	404	393	224
45°	293	254	158	236	302	224
55°	158	150	41	150	186	142
65°	49	50	6	67	71	52
75°	9	9	1	15	16	10
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°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	539.9	539.1	539.9	539.9	540.2	539.6	539.9	540.2	539.6	539.6	539.6
5°	539.6	539.1	539.6	539.3	539.9	539.9	540.5	540.5	541.1	541.1	541.9
7.5°	535.1	533.9	535.1	535.9	536.5	537.6	539.1	540.2	541.3	542.5	543.9
10°	525.6	525.6	526.5	528.2	529.9	531.9	534.5	537.3	540.2	542.8	545.3
12.5°	513.9	513.0	514.8	517.0	519.6	522.8	526.8	531.1	535.6	540.8	544.8
15°	500.5	499.6	501.6	503.9	507.0	511.6	516.5	522.2	528.8	535.6	542.2
17.5°	486.7	486.5	488.5	491.6	494.2	499.0	505.3	512.2	519.6	528.8	537.3
20°	472.7	472.5	474.5	477.0	480.5	485.0	491.3	499.3	508.2	518.5	528.5
22.5°	458.2	458.5	460.2	463.0	465.9	470.7	477.3	485.3	495.0	506.2	517.3
25°	438.4	437.0	439.3	442.2	447.0	451.0	457.3	465.9	475.9	487.6	500.8
27.5°	409.9	409.6	411.6	414.1	418.4	423.3	430.2	439.0	449.6	462.5	475.3
30°	381.3	381.9	382.7	385.3	388.1	393.0	399.9	407.3	417.3	429.6	443.3
32.5°	361.8	361.8	363.0	364.7	366.7	369.3	374.1	379.6	387.3	395.9	405.9
35°	355.3	354.1	355.3	355.6	355.8	356.4	357.3	359.0	361.6	365.3	369.0
37.5°	352.4	351.6	351.6	350.4	349.0	347.3	345.0	342.4	339.6	335.8	333.0
40°	341.3	340.7	340.1	339.0	335.8	332.4	328.7	322.7	316.1	307.0	297.8
42.5°	319.8	319.3	319.0	316.7	313.8	309.8	305.5	299.3	291.0	279.2	266.1
45°	293.3	292.1	291.3	289.3	287.2	283.8	279.8	274.1	265.8	253.8	238.1
47.5°	262.4	261.8	261.5	260.7	258.7	256.7	254.1	249.5	242.1	230.7	214.4
50°	231.2	230.1	230.7	230.4	229.5	228.1	226.4	223.2	217.5	207.2	192.4
52.5°	195.5	195.5	195.2	196.1	196.4	196.1	196.4	192.9	188.1	180.3	167.8
55°	158.3	158.3	159.2	160.3	161.5	161.8	161.5	160.1	156.6	150.3	139.2
57.5°	123.5	122.9	124.6	126.3	127.5	128.6	127.8	126.6	124.6	119.5	110.9
60°	94.0	94.0	95.2	96.3	97.5	98.6	98.3	98.0	96.3	92.9	86.0
62.5°	69.2	69.5	69.5	70.3	71.5	72.6	73.5	72.6	71.7	69.5	64.9
65°	49.4	49.2	49.4	50.3	51.2	52.3	52.9	52.6	51.7	50.0	46.6
67.5°	33.2	32.9	34.0	34.3	34.9	36.0	35.7	36.0	35.7	34.3	31.4
70°	21.7	21.1	21.7	21.4	22.3	22.6	23.1	23.4	23.1	22.3	21.4
72.5°	13.4	13.1	13.4	13.7	14.0	14.3	14.9	14.9	14.6	14.0	12.9
75°	8.6	7.7	8.0	7.4	8.0	8.0	8.6	8.9	8.6	8.6	8.0
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.4	5.7	5.1	4.9
80°	2.6	2.6	2.9	2.9	2.9	3.1	2.9	2.9	2.9	3.1	2.3
82.5°	2.0	1.7	1.7	1.7	2.0	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.9	1.1	0.9	0.6	0.9	0.9	1.1	0.9	0.9	0.9	1.1
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°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	539.9	539.3	539.3	539.1	539.6	539.1	539.3	539.1	539.1	539.6	539.1
5°	541.9	542.2	541.6	541.3	542.2	542.2	542.2	541.6	541.6	541.9	541.6
7.5°	544.8	545.3	545.6	545.9	546.5	546.8	546.8	546.5	546.2	547.1	545.9
10°	547.9	548.8	550.5	551.3	552.8	552.8	553.3	553.3	552.8	553.3	553.1
12.5°	546.8	551.9	554.8	556.8	558.8	560.5	561.1	561.3	561.1	562.2	561.1
15°	548.8	553.1	557.6	561.1	564.8	566.8	567.3	569.6	570.2	570.5	568.8
17.5°	545.6	553.3	558.2	563.3	568.8	572.5	575.9	577.4	577.6	578.2	575.9
20°	538.5	547.1	554.5	561.9	568.2	573.9	576.8	580.8	579.6	581.9	578.8
22.5°	528.8	538.5	547.9	557.6	564.2	571.1	577.1	579.9	581.4	581.4	577.9
25°	513.3	524.8	535.1	545.1	555.1	563.3	570.2	574.5	575.4	575.1	571.1
27.5°	489.3	501.6	513.6	525.1	537.3	547.1	555.1	560.2	561.6	561.6	557.3
30°	456.2	469.3	481.0	494.7	507.3	518.2	529.3	533.9	536.5	536.5	531.6
32.5°	416.7	427.9	438.7	452.2	465.9	478.2	488.7	495.0	498.2	497.9	493.6
35°	373.9	379.3	387.6	397.6	409.9	421.3	431.6	437.6	443.0	442.7	438.7
37.5°	331.0	329.5	330.4	334.1	341.8	349.8	357.8	363.6	368.1	370.1	369.3
40°	289.0	281.5	274.4	271.8	272.4	275.2	279.5	283.8	289.0	291.5	292.7
42.5°	251.2	238.7	226.1	216.7	211.2	209.5	211.5	212.9	216.1	219.8	223.5
45°	220.9	204.1	187.5	172.9	163.8	158.3	157.2	158.3	160.1	163.8	168.6
47.5°	196.1	176.3	157.8	141.5	128.0	120.9	118.9	118.3	120.0	123.5	130.0
50°	174.1	154.3	133.8	114.9	100.9	92.9	90.0	88.9	90.9	93.5	99.5
52.5°	150.1	130.6	109.5	91.2	76.6	68.3	65.2	63.5	64.6	68.0	74.0
55°	124.0	106.0	86.9	68.0	54.0	46.3	42.6	41.4	42.6	46.3	52.3
57.5°	98.0	82.9	66.9	49.2	36.6	28.9	25.1	24.0	27.2	28.6	34.9
60°	76.6	64.3	50.6	36.0	25.1	19.1	15.4	14.6	16.0	18.6	23.7
62.5°	57.5	49.7	38.9	25.7	18.6	12.3	10.3	9.4	10.3	12.3	16.3
65°	41.7	35.7	27.2	18.9	12.6	9.1	6.9	6.3	7.1	8.6	12.0
67.5°	28.6	24.0	18.9	13.1	8.6	5.7	4.9	4.9	5.1	6.3	8.9
70°	18.6	15.7	12.0	8.6	5.7	4.3	3.7	3.1	3.7	4.6	6.0
72.5°	11.7	10.0	7.7	6.0	4.3	3.1	2.6	2.3	2.9	3.4	4.6
75°	7.1	5.4	4.0	3.1	2.3	2.3	2.3	1.1	1.4	2.3	2.9
77.5°	4.3	3.7	3.1	2.6	2.0	1.1	1.1	1.1	1.4	1.7	2.6
80°	2.3	2.0	1.4	1.4	1.1	0.9	1.1	0.9	0.6	1.4	1.7
82.5°	1.4	1.1	1.1	1.1	1.4	0.6	0.9	0.6	0.9	1.1	0.9
85°	0.9	0.9	0.9	0.6	1.4	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°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	539.3	539.1	539.3	539.1	539.1	539.1	539.3	539.3	539.1	539.1	539.6
5°	541.6	541.6	541.6	541.3	541.1	541.1	541.6	541.6	540.8	541.6	541.6
7.5°	546.5	545.6	546.5	545.3	544.8	545.1	545.3	544.8	544.2	544.5	544.5
10°	552.8	551.9	551.9	551.1	550.2	549.6	549.1	547.6	546.2	545.9	544.8
12.5°	560.2	558.8	557.9	556.2	554.8	552.8	551.1	548.8	545.9	543.9	541.9
15°	567.6	565.3	563.3	560.5	557.3	553.9	550.2	546.5	541.9	537.9	534.5
17.5°	573.6	570.5	566.8	562.2	557.6	552.5	547.1	541.6	535.1	529.9	525.9
20°	575.6	571.1	566.2	560.2	554.2	547.1	540.2	533.1	525.6	520.2	515.6
22.5°	573.1	567.6	561.6	555.3	547.3	539.6	531.6	523.3	516.8	509.3	505.0
25°	565.9	559.3	552.8	545.3	537.6	529.1	520.5	511.9	503.9	499.9	494.5
27.5°	551.3	544.2	537.1	529.3	520.5	511.9	503.0	494.7	487.9	482.5	479.3
30°	525.6	517.3	509.0	500.8	493.0	484.2	475.9	469.0	462.2	457.9	454.7
32.5°	486.2	478.7	470.5	462.5	455.3	447.9	441.0	435.0	430.2	427.3	425.0
35°	433.0	425.6	419.3	413.6	407.6	404.4	400.1	396.7	394.7	393.6	393.3
37.5°	366.1	361.8	359.8	358.7	357.6	356.7	357.3	358.7	359.8	361.8	364.1
40°	294.7	298.4	299.5	303.5	307.3	312.1	317.5	323.8	329.0	335.5	340.1
42.5°	229.5	236.4	244.4	252.9	262.1	271.0	281.8	291.8	301.0	309.3	316.4
45°	176.3	186.9	198.9	211.2	223.5	236.4	249.5	261.8	272.7	281.5	289.0
47.5°	137.5	149.2	164.6	179.8	194.6	209.8	224.4	237.2	246.4	254.9	261.5
50°	108.9	122.3	139.2	156.6	172.9	188.9	204.4	216.4	225.5	232.4	237.2
52.5°	84.3	100.3	117.5	135.8	153.2	170.6	184.9	196.1	203.5	209.5	213.2
55°	62.9	78.6	96.9	115.8	133.5	150.3	163.8	173.5	180.1	183.5	185.5
57.5°	45.4	59.7	78.0	96.9	112.9	128.9	139.8	148.6	152.3	154.3	155.2
60°	33.2	46.3	62.6	78.9	94.0	106.9	116.3	122.3	125.2	126.3	126.0
62.5°	24.3	35.7	49.7	63.5	75.7	86.3	93.7	97.7	99.2	99.7	98.9
65°	18.6	27.4	39.4	50.0	59.5	67.2	72.6	75.2	76.0	75.7	75.2
67.5°	13.7	20.6	29.4	37.4	44.3	50.3	53.2	55.5	56.0	55.2	54.3
70°	9.7	15.1	21.4	26.9	32.0	35.4	38.6	38.9	38.9	38.6	38.0
72.5°	6.9	10.6	14.6	18.3	21.4	24.0	25.1	26.0	25.7	25.4	24.9
75°	4.6	6.6	10.6	11.4	14.3	15.1	16.3	16.3	16.6	15.7	15.7
77.5°	2.9	4.6	6.3	7.4	8.6	9.7	10.3	10.3	10.6	10.3	10.3
80°	1.7	2.9	3.4	5.1	5.1	6.0	6.3	6.6	6.0	6.9	6.0
82.5°	1.1	1.7	2.6	2.6	3.1	3.7	3.7	4.0	4.0	3.7	3.7
85°	0.9	1.1	1.4	1.7	1.7	2.0	1.7	1.7	2.0	2.3	2.0
87.5°	0.3	0.6	0.3	0.6	0.6	1.1	0.9	0.9	0.9	1.1	1.1
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°	538.5	538.5	538.5	538.5
2.5°	539.1	539.3	539.1	539.1
5°	541.6	541.3	541.6	541.1
7.5°	543.6	543.6	543.3	543.3
10°	543.6	542.5	542.5	542.5
12.5°	539.3	537.9	537.1	536.5
15°	531.9	529.3	528.2	527.9
17.5°	522.2	519.9	518.5	517.6
20°	511.0	508.8	507.0	507.3
22.5°	501.3	498.8	497.6	497.0
25°	491.6	488.5	487.6	487.0
27.5°	475.9	474.2	473.3	472.5
30°	451.9	451.0	449.6	451.6
32.5°	424.2	422.7	421.6	422.4
35°	393.6	392.7	393.6	393.0
37.5°	365.6	366.4	367.6	368.1
40°	343.6	346.7	347.8	348.4
42.5°	321.5	325.3	327.5	329.0
45°	294.4	298.1	300.7	302.4
47.5°	266.4	269.5	272.1	271.8
50°	240.9	242.7	243.8	244.9
52.5°	215.2	215.2	215.5	215.5
55°	186.1	185.5	185.2	185.5
57.5°	154.1	153.5	153.2	152.3
60°	124.9	123.2	122.0	122.0
62.5°	97.7	95.7	94.9	94.6
65°	73.5	73.2	71.5	71.2
67.5°	53.2	52.0	50.9	51.2
70°	37.4	35.7	35.7	35.2
72.5°	24.3	23.4	23.1	23.1
75°	15.1	15.1	14.6	15.7
77.5°	10.0	10.0	9.7	10.0
80°	6.0	6.0	6.0	5.7
82.5°	3.7	4.0	3.7	3.7
85°	2.0	2.3	1.7	2.6
87.5°	1.1	1.4	1.1	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)