

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: P246186

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246186
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 EC8B10835 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1143.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

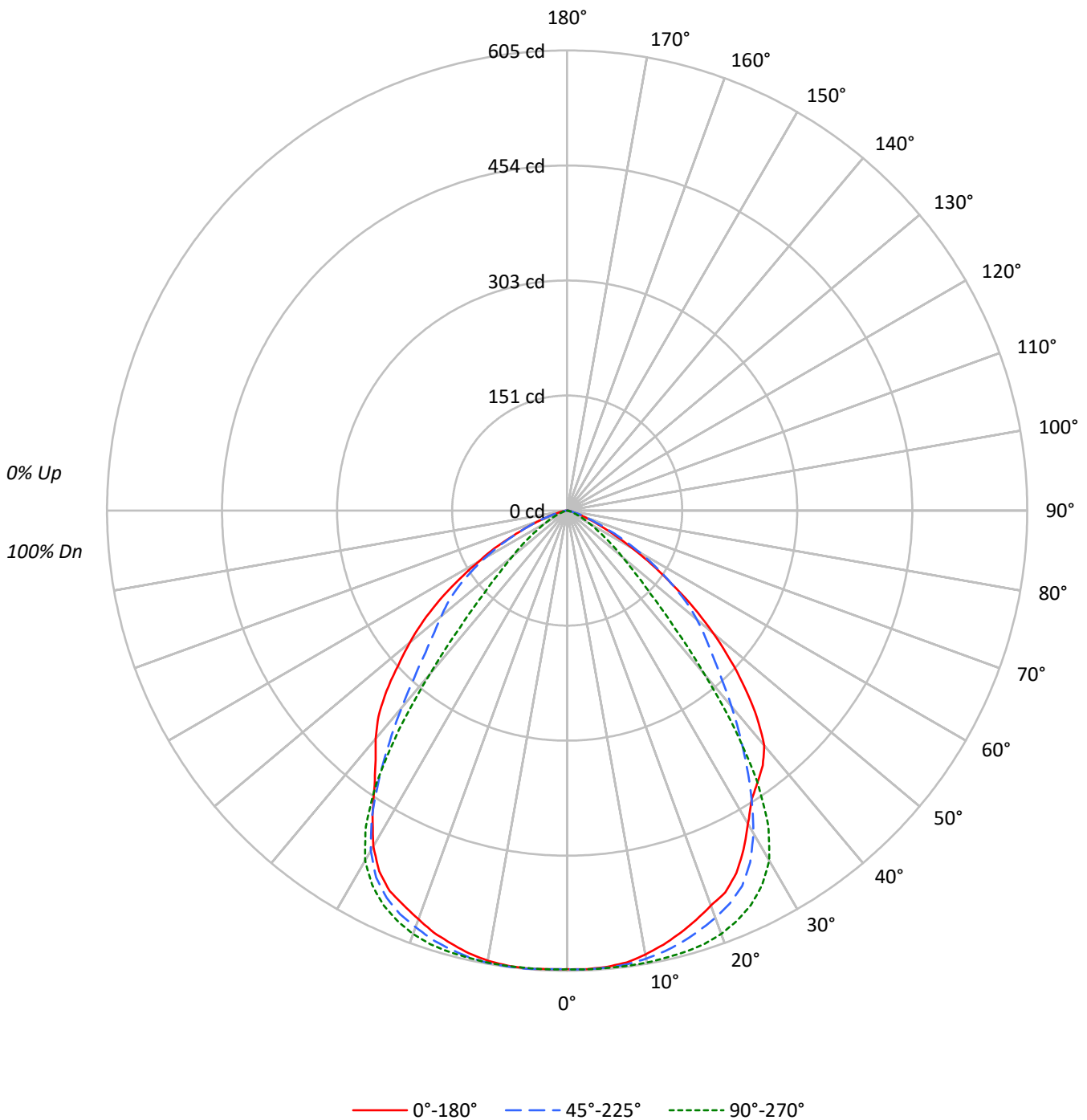
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	51	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°	18597	18597	18597
5°	18637	18687	18709
10°	18559	18894	18812
15°	18353	19170	18810
20°	18134	19440	18761
25°	17897	19462	18778
30°	16931	18914	18142
35°	16428	16439	16609
40°	16222	11311	15767
45°	14456	6790	14653
50°	12022	4519	12953
55°	9016	3113	10983
60°	6112	2078	8283
65°	3685	1350	5691
70°	2047	730	3498
75°	929	310	1811
80°	799	337	1261
85°	920	460	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	5.0
10°-20°	167.1	14.6
20°-30°	253.7	22.2
30°-40°	266.5	23.3
40°-50°	199.8	17.5
50°-60°	128.2	11.2
60°-70°	54.8	4.8
70°-80°	13.0	1.1
80°-90°	2.4	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°	478.4	41.9
0°-40°	744.9	65.2
0°-60°	1072.8	93.9
0°-90°	1143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	603	603	603	603	603	
5°	602	603	604	605	604	57
15°	575	587	600	597	589	162
25°	526	544	572	562	552	240
35°	436	412	437	432	441	274
45°	332	271	156	263	336	254
55°	168	168	58	175	204	152
65°	50	60	18	77	78	54
75°	8	9	3	16	15	11
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°	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1
2.5°	603.4	604.0	603.7	603.7	603.4	603.7	603.7	604.4	604.4	603.7	603.4
5°	602.1	602.7	602.7	602.1	602.1	603.7	602.7	603.4	603.4	603.1	603.1
7.5°	599.2	599.2	600.5	599.5	599.5	600.5	600.2	600.8	601.5	601.8	601.8
10°	592.7	593.4	593.7	593.7	594.0	595.0	595.6	596.9	597.6	598.2	598.5
12.5°	584.6	585.6	585.9	585.6	586.6	587.9	589.5	591.1	592.1	593.4	594.3
15°	574.9	574.9	575.6	576.5	577.2	579.1	580.7	582.7	585.3	586.9	588.5
17.5°	564.2	564.9	565.8	565.8	567.1	570.4	571.3	574.3	577.2	578.8	582.0
20°	552.6	553.2	554.2	554.8	556.5	559.0	561.0	563.6	566.8	569.7	573.0
22.5°	543.5	542.2	542.9	543.5	545.1	547.4	549.7	552.9	556.1	559.0	562.3
25°	526.0	526.4	527.3	528.0	529.9	531.9	534.4	538.3	541.2	544.5	548.0
27.5°	502.4	502.7	504.3	504.3	506.0	509.2	510.8	514.0	517.9	521.2	525.4
30°	475.5	476.2	476.2	477.5	478.4	480.1	481.7	484.9	486.9	489.8	495.6
32.5°	450.9	451.6	451.2	450.9	450.0	449.6	449.3	450.0	450.6	451.6	453.8
35°	436.4	434.7	433.4	431.2	428.6	425.4	422.4	418.6	415.0	412.1	408.8
37.5°	422.4	422.1	420.2	416.9	411.8	405.9	399.1	390.7	382.3	373.2	364.5
40°	403.0	402.0	400.4	395.9	390.1	382.9	373.9	363.5	349.9	336.0	321.8
42.5°	370.0	370.3	368.4	364.8	359.3	352.5	343.1	331.8	317.2	300.7	282.3
45°	331.5	331.5	330.8	327.9	324.0	318.5	311.4	302.0	287.8	270.9	251.2
47.5°	291.3	291.7	290.7	290.0	288.4	284.9	279.7	272.6	262.5	246.3	226.6
50°	250.6	250.6	252.2	251.8	251.8	250.6	248.3	244.1	235.3	222.4	203.9
52.5°	209.8	210.4	211.4	212.7	214.3	216.9	214.3	212.4	206.8	196.8	181.0
55°	167.7	168.3	169.9	172.2	174.2	176.7	177.4	177.4	174.5	167.7	155.7
57.5°	131.8	130.8	132.1	134.0	136.6	139.2	141.1	143.4	143.1	138.5	128.8
60°	99.1	99.4	100.3	102.3	104.2	106.5	109.1	111.0	112.0	109.7	103.6
62.5°	72.2	72.2	73.5	75.4	76.4	79.6	81.2	82.2	83.2	82.9	79.0
65°	50.5	51.1	51.8	52.8	53.7	55.7	56.6	58.6	59.2	59.6	56.6
67.5°	35.6	34.6	35.3	35.9	36.9	38.2	40.1	40.1	41.1	41.1	39.2
70°	22.7	22.7	23.0	24.0	24.6	24.9	25.6	26.2	27.2	26.9	26.9
72.5°	15.2	14.9	15.2	15.5	15.9	16.8	16.8	17.2	17.8	18.1	16.8
75°	7.8	8.1	8.7	8.4	9.4	8.7	9.1	10.0	9.7	9.1	9.1
77.5°	6.5	6.5	6.5	6.2	6.8	6.8	6.5	7.1	6.8	6.8	6.5
80°	4.5	4.9	4.5	4.2	4.5	4.2	4.2	4.2	4.2	4.2	3.9
82.5°	3.6	2.9	3.2	2.9	3.2	3.2	2.9	2.6	2.6	2.9	2.6
85°	2.6	1.9	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.6	1.6
87.5°	1.6	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	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°	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1
2.5°	604.0	603.7	604.4	604.0	604.0	603.7	604.0	603.7	604.4	603.1	603.4
5°	604.0	603.4	603.7	604.0	604.4	603.7	603.7	603.7	604.4	603.7	604.0
7.5°	602.7	602.4	603.4	604.0	603.7	603.4	604.0	603.7	604.4	604.0	604.7
10°	600.2	600.5	601.1	602.1	602.4	602.7	603.4	603.4	604.4	603.1	603.7
12.5°	596.3	597.6	599.2	599.8	601.1	601.1	601.8	602.1	602.7	602.4	603.4
15°	591.4	593.0	595.0	596.6	598.2	599.2	600.2	600.5	601.5	600.5	600.8
17.5°	585.6	587.5	590.4	592.4	595.0	595.9	597.2	597.9	598.9	598.2	598.5
20°	577.5	579.8	583.0	585.9	587.5	589.8	591.4	592.4	593.0	592.4	592.7
22.5°	566.2	569.4	573.6	575.9	579.1	581.1	581.4	583.6	585.3	583.6	584.3
25°	552.9	556.1	559.4	564.2	567.1	569.4	571.7	572.0	573.6	573.3	573.0
27.5°	530.9	535.1	540.6	544.5	548.4	551.9	554.5	555.2	556.8	556.1	556.5
30°	500.8	505.3	510.5	516.6	522.1	525.7	528.9	531.2	532.8	531.9	531.5
32.5°	458.1	462.6	468.1	474.2	480.7	485.9	489.8	492.7	494.6	494.0	492.4
35°	409.2	410.5	414.0	418.9	424.4	429.9	433.4	436.7	438.9	439.6	439.6
37.5°	359.0	354.8	352.2	352.2	355.4	357.7	360.9	362.9	366.4	367.7	368.7
40°	310.4	300.7	291.7	284.9	280.3	280.0	280.0	281.0	284.2	288.4	292.3
42.5°	267.1	251.5	237.6	225.0	215.9	210.7	208.5	208.8	211.4	215.3	221.7
45°	232.4	213.0	195.5	180.3	168.0	159.9	156.0	155.7	157.6	162.2	169.3
47.5°	205.6	184.8	165.1	147.6	134.3	125.6	121.1	119.8	121.1	125.3	133.7
50°	183.2	161.9	141.5	123.3	109.1	100.0	95.8	94.2	95.8	99.4	107.8
52.5°	162.5	140.5	121.4	103.9	88.7	80.9	76.4	75.4	76.4	80.6	87.4
55°	138.5	119.8	101.0	83.5	70.2	62.5	58.9	57.9	58.9	62.8	69.9
57.5°	114.9	98.7	82.2	66.4	55.0	48.2	45.0	43.7	46.0	48.6	57.0
60°	92.9	80.0	66.0	52.1	42.7	36.6	34.0	33.7	34.3	37.6	43.4
62.5°	72.8	62.2	51.1	39.8	32.0	29.5	26.2	25.9	26.5	28.5	33.0
65°	52.4	45.6	37.2	29.1	23.0	19.4	18.1	18.5	19.1	20.4	24.6
67.5°	36.6	31.7	25.9	20.4	15.9	14.2	13.0	12.6	13.0	15.2	17.5
70°	24.6	21.7	17.5	15.5	11.0	8.7	9.1	8.1	9.4	9.4	11.3
72.5°	16.2	14.2	11.7	9.1	7.8	6.2	6.2	5.8	6.5	6.8	8.4
75°	8.4	6.5	6.5	4.5	3.2	1.6	2.9	2.6	2.3	2.6	3.2
77.5°	5.8	4.9	4.5	3.6	3.2	2.6	2.6	2.6	2.6	2.9	3.2
80°	3.6	3.6	2.6	2.3	1.9	1.6	1.9	1.9	1.9	1.9	2.3
82.5°	2.3	1.9	1.9	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.9
85°	1.9	1.3	1.3	1.0	1.3	2.3	1.0	1.3	1.3	1.3	1.0
87.5°	0.6	1.0	1.0	1.0	0.6	0.3	0.6	1.0	1.0	1.6	1.3
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°	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1
2.5°	604.0	604.4	604.4	604.0	604.0	603.4	604.7	603.7	604.0	605.3	604.4
5°	604.7	605.0	605.0	604.7	604.7	604.7	605.0	605.0	604.7	604.4	605.0
7.5°	606.0	605.7	605.7	605.0	605.0	604.4	605.0	604.0	604.7	604.0	605.0
10°	604.4	604.7	604.4	604.0	604.0	603.7	603.7	602.7	603.1	602.1	602.7
12.5°	603.4	603.1	603.1	602.4	601.8	601.1	600.8	599.8	599.8	597.6	598.5
15°	600.8	601.1	600.2	598.9	598.2	596.6	595.9	594.6	593.4	591.7	592.1
17.5°	598.5	597.6	596.3	595.0	592.4	591.1	589.8	587.9	587.2	585.3	584.6
20°	591.7	591.1	589.5	587.2	585.6	582.7	581.4	579.4	577.8	575.9	574.9
22.5°	583.0	582.3	580.4	578.1	575.6	574.3	573.0	569.4	567.8	565.8	565.5
25°	572.0	571.0	569.1	566.5	565.2	561.6	560.3	557.7	557.1	555.2	554.8
27.5°	555.2	553.9	551.6	548.4	546.1	543.8	542.5	540.6	539.9	538.0	537.7
30°	529.9	528.3	523.8	522.5	518.6	516.3	516.3	513.7	514.0	512.8	512.8
32.5°	490.1	487.5	483.9	481.4	478.8	477.5	477.5	476.5	477.1	477.1	477.8
35°	437.3	433.8	431.8	430.2	430.2	431.5	435.4	436.4	438.3	439.9	441.2
37.5°	369.7	369.4	371.6	373.6	378.4	383.9	390.7	396.5	402.0	405.9	409.8
40°	296.5	304.6	311.1	320.2	327.6	338.3	350.6	360.6	370.0	376.8	383.9
42.5°	231.4	241.8	255.4	268.7	282.0	296.5	312.7	326.6	338.9	348.3	355.8
45°	180.3	194.5	211.1	227.9	245.0	263.2	280.0	294.3	307.2	316.9	324.4
47.5°	145.3	160.9	179.7	198.1	217.5	236.6	255.4	267.7	278.4	286.2	293.0
50°	120.1	136.6	156.4	177.4	196.8	215.9	232.1	244.1	252.8	259.6	263.8
52.5°	100.3	117.8	138.9	159.9	179.3	196.8	211.4	220.4	227.6	232.4	236.3
55°	82.9	99.7	119.5	139.2	158.3	174.8	186.8	193.6	199.1	202.0	204.3
57.5°	67.7	83.2	101.3	119.5	136.0	149.6	158.9	165.7	168.3	170.6	170.3
60°	53.1	67.7	84.2	99.7	113.9	124.9	131.8	135.6	137.6	138.5	137.9
62.5°	41.8	55.0	67.7	81.2	91.6	101.0	107.5	107.5	108.4	108.8	109.7
65°	31.1	41.1	52.1	62.2	70.6	76.7	80.3	81.2	82.5	82.2	81.6
67.5°	23.0	30.4	38.5	46.0	51.8	55.7	58.3	60.5	60.2	59.6	59.2
70°	15.9	20.7	27.8	32.4	36.6	40.5	41.1	41.4	41.8	42.1	41.4
72.5°	11.0	14.6	18.5	22.3	24.9	26.5	28.2	28.5	28.5	28.5	28.2
75°	5.5	7.4	11.0	12.6	14.9	15.5	16.8	16.8	17.8	16.5	16.2
77.5°	4.9	5.8	7.8	9.1	10.0	11.0	11.3	12.3	12.0	11.3	11.7
80°	2.9	3.6	4.9	5.5	6.8	7.1	7.4	7.8	7.4	7.8	7.8
82.5°	2.3	2.6	3.2	3.2	4.2	4.2	4.5	4.5	4.9	4.9	4.9
85°	1.3	2.3	1.9	3.9	2.6	2.6	3.2	3.9	3.2	3.2	3.9
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	1.9	1.9	2.3	1.9
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):

	165°	170°	175°	180°
0°	603.1	603.1	603.1	603.1
2.5°	604.0	604.7	603.7	603.4
5°	605.0	605.0	604.4	604.4
7.5°	605.0	605.0	604.0	603.4
10°	602.4	602.4	601.5	600.8
12.5°	597.6	597.6	597.2	596.3
15°	591.4	591.4	590.1	589.2
17.5°	583.0	583.6	582.0	582.0
20°	573.9	573.6	572.3	571.7
22.5°	564.6	563.9	563.6	561.6
25°	554.5	553.9	552.9	551.9
27.5°	537.4	537.0	536.1	534.8
30°	511.1	510.8	509.5	509.5
32.5°	477.1	476.8	475.5	475.9
35°	441.9	443.2	442.5	441.2
37.5°	412.4	413.4	414.0	413.4
40°	387.8	390.7	391.0	391.7
42.5°	361.6	365.5	366.8	367.4
45°	330.2	333.7	336.7	336.0
47.5°	298.1	300.7	303.3	301.4
50°	267.4	269.0	270.0	270.0
52.5°	238.3	238.3	237.9	238.3
55°	204.9	204.9	203.6	204.3
57.5°	169.9	170.6	169.6	168.0
60°	137.6	136.0	135.3	134.3
62.5°	107.2	107.2	104.9	107.8
65°	80.3	79.3	78.3	78.0
67.5°	58.3	57.9	57.0	56.6
70°	41.1	39.8	39.5	38.8
72.5°	27.5	27.5	26.9	26.9
75°	16.8	15.2	14.9	15.2
77.5°	11.7	11.3	11.3	11.0
80°	7.8	7.4	8.1	7.1
82.5°	4.9	5.2	4.9	5.2
85°	3.2	3.9	3.6	3.6
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)