

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: P245454

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245454
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 EC8B10827 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1093.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

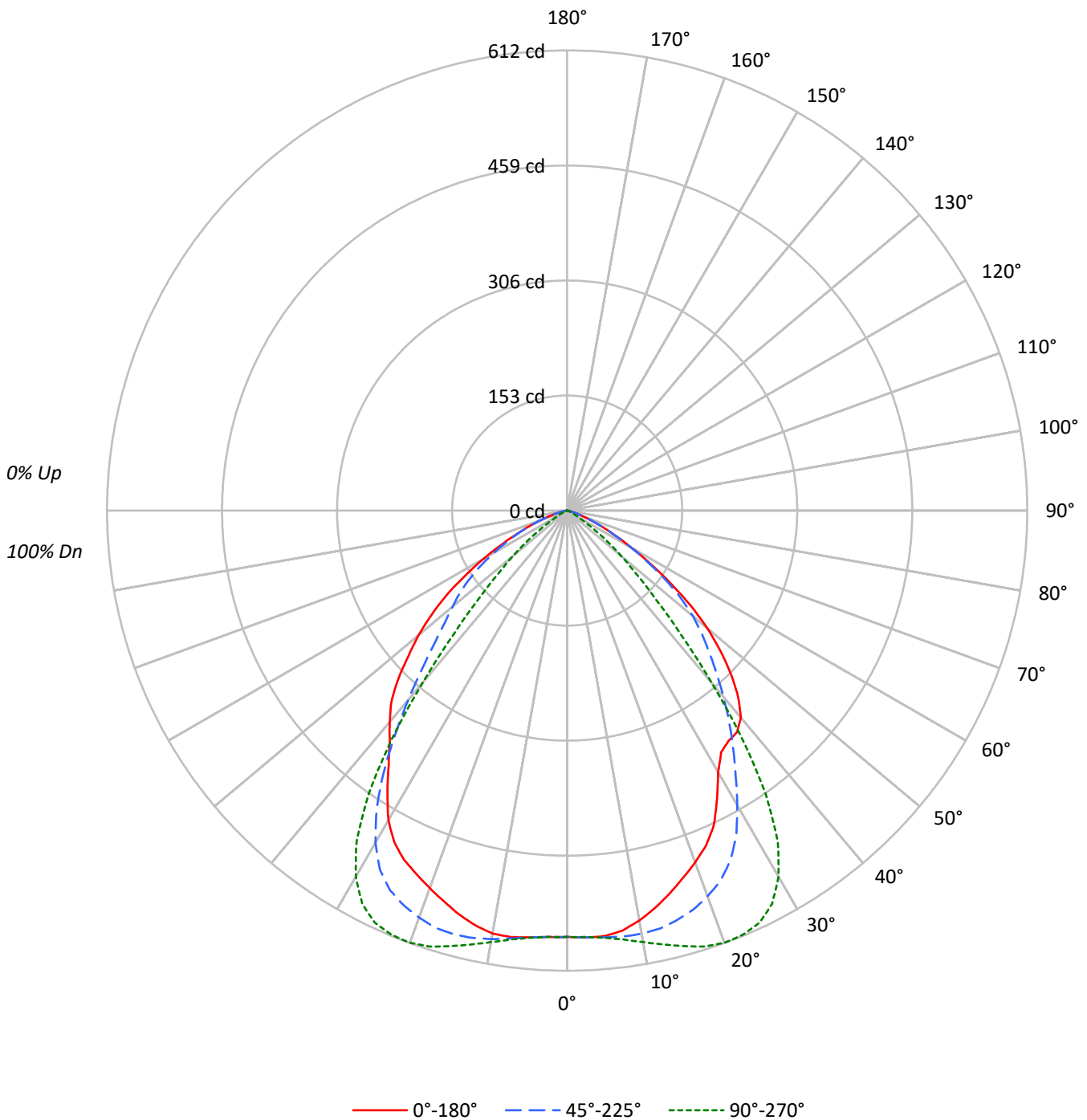
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	17484	17484	17484
5°	17588	17653	17635
10°	17331	18246	17885
15°	16824	19148	17747
20°	16335	20070	17530
25°	15709	20581	17448
30°	14296	20018	16931
35°	14083	17346	15577
40°	14467	12032	14769
45°	13467	7270	13885
50°	11681	4490	12372
55°	8962	2344	10500
60°	6106	944	7925
65°	3801	482	5465
70°	2065	298	3336
75°	1072	143	1978
80°	479	160	1065
85°	318	106	955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	5.0
10°-20°	161.5	14.8
20°-30°	246.4	22.5
30°-40°	257.2	23.5
40°-50°	193.2	17.7
50°-60°	118.8	10.9
60°-70°	48.4	4.4
70°-80°	11.4	1.0
80°-90°	1.6	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°	462.5	42.3
0°-40°	719.7	65.8
0°-60°	1031.7	94.4
0°-90°	1093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	567	567	567	567	567	
5°	568	570	570	570	570	54
15°	527	564	600	583	556	148
25°	462	513	605	557	513	210
35°	374	385	461	426	414	236
45°	309	267	167	249	318	236
55°	167	158	44	158	195	150
65°	52	53	7	71	75	54
75°	9	9	1	16	17	11
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°	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
2.5°	568.5	567.6	568.5	568.5	568.8	568.2	568.5	568.8	568.2	568.2	568.2
5°	568.2	567.6	568.2	567.9	568.5	568.5	569.1	569.1	569.7	569.7	570.6
7.5°	563.4	562.2	563.4	564.3	564.9	566.1	567.6	568.8	570.0	571.2	572.7
10°	553.5	553.5	554.4	556.2	558.0	560.1	562.8	565.8	568.8	571.5	574.2
12.5°	541.1	540.2	542.0	544.4	547.1	550.5	554.7	559.2	564.0	569.4	573.6
15°	527.0	526.1	528.2	530.6	533.9	538.7	543.8	549.9	556.8	564.0	570.9
17.5°	512.5	512.2	514.3	517.7	520.4	525.5	532.1	539.3	547.1	556.8	565.8
20°	497.8	497.5	499.6	502.3	505.9	510.7	517.4	525.8	535.1	545.9	556.5
22.5°	482.4	482.7	484.5	487.6	490.6	495.7	502.6	511.0	521.3	533.0	544.7
25°	461.7	460.2	462.6	465.6	470.7	474.9	481.5	490.6	501.1	513.4	527.3
27.5°	431.6	431.3	433.4	436.1	440.6	445.7	452.9	462.3	473.4	487.0	500.5
30°	401.5	402.1	403.0	405.7	408.7	413.8	421.0	428.9	439.4	452.3	466.8
32.5°	381.0	381.0	382.2	384.0	386.1	388.8	394.0	399.7	407.8	416.8	427.4
35°	374.1	372.9	374.1	374.4	374.7	375.3	376.2	378.0	380.7	384.6	388.5
37.5°	371.1	370.2	370.2	369.0	367.5	365.7	363.3	360.6	357.5	353.6	350.6
40°	359.4	358.7	358.1	356.9	353.6	350.0	346.1	339.8	332.9	323.2	313.6
42.5°	336.8	336.2	335.9	333.5	330.5	326.2	321.7	315.1	306.4	294.0	280.2
45°	308.8	307.6	306.7	304.6	302.5	298.9	294.6	288.6	279.9	267.3	250.7
47.5°	276.3	275.7	275.4	274.5	272.4	270.3	267.6	262.7	254.9	242.9	225.7
50°	243.5	242.3	242.9	242.6	241.7	240.2	238.4	235.1	229.0	218.2	202.5
52.5°	205.9	205.9	205.6	206.5	206.8	206.5	206.8	203.2	198.0	189.9	176.7
55°	166.7	166.7	167.6	168.8	170.0	170.3	170.0	168.5	164.9	158.3	146.6
57.5°	130.0	129.4	131.2	133.0	134.2	135.4	134.5	133.3	131.2	125.8	116.8
60°	99.0	99.0	100.2	101.4	102.6	103.8	103.5	103.2	101.4	97.8	90.6
62.5°	72.8	73.1	73.1	74.0	75.2	76.4	77.3	76.4	75.5	73.1	68.3
65°	52.1	51.8	52.1	53.0	53.9	55.1	55.7	55.4	54.5	52.7	49.1
67.5°	34.9	34.6	35.8	36.1	36.7	37.9	37.6	37.9	37.6	36.1	33.1
70°	22.9	22.3	22.9	22.6	23.5	23.8	24.4	24.7	24.4	23.5	22.6
72.5°	14.1	13.8	14.1	14.4	14.8	15.0	15.6	15.6	15.3	14.8	13.5
75°	9.0	8.1	8.4	7.8	8.4	8.4	9.0	9.3	9.0	9.0	8.4
77.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.7	6.0	5.4	5.1
80°	2.7	2.7	3.0	3.0	3.0	3.3	3.0	3.0	3.0	3.3	2.4
82.5°	2.1	1.8	1.8	1.8	2.1	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.9	1.2	0.9	0.6	0.9	0.9	1.2	0.9	0.9	0.9	1.2
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°	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
2.5°	568.5	567.9	567.9	567.6	568.2	567.6	567.9	567.6	567.6	568.2	567.6
5°	570.6	570.9	570.3	570.0	570.9	570.9	570.9	570.3	570.3	570.6	570.3
7.5°	573.6	574.2	574.5	574.8	575.4	575.7	575.7	575.4	575.1	576.0	574.8
10°	576.9	577.8	579.7	580.6	582.1	582.1	582.7	582.7	582.1	582.7	582.4
12.5°	575.7	581.2	584.2	586.3	588.4	590.2	590.8	591.1	590.8	592.0	590.8
15°	577.8	582.4	587.2	590.8	594.7	596.8	597.4	599.8	600.4	600.7	598.9
17.5°	574.5	582.7	587.8	593.2	598.9	602.8	606.4	607.9	608.2	608.8	606.4
20°	567.0	576.0	583.9	591.7	598.3	604.3	607.3	611.6	610.4	612.8	609.4
22.5°	556.8	567.0	576.9	587.2	594.1	601.3	607.6	610.6	612.2	612.2	608.5
25°	540.5	552.6	563.4	573.9	584.5	593.2	600.4	604.9	605.8	605.5	601.3
27.5°	515.2	528.2	540.8	552.9	565.8	576.0	584.5	589.9	591.4	591.4	586.9
30°	480.3	494.2	506.5	521.0	534.2	545.6	557.4	562.2	564.9	564.9	559.8
32.5°	438.8	450.5	462.0	476.1	490.6	503.5	514.6	521.3	524.6	524.3	519.8
35°	393.7	399.4	408.1	418.6	431.6	443.6	454.5	460.8	466.5	466.2	462.0
37.5°	348.5	347.0	347.9	351.8	359.9	368.4	376.8	382.8	387.6	389.7	388.8
40°	304.3	296.4	288.9	286.2	286.8	289.8	294.3	298.9	304.3	307.0	308.2
42.5°	264.5	251.3	238.1	228.1	222.4	220.6	222.7	224.2	227.5	231.4	235.4
45°	232.6	214.9	197.4	182.1	172.5	166.7	165.5	166.7	168.5	172.5	177.6
47.5°	206.5	185.7	166.1	149.0	134.8	127.3	125.2	124.6	126.4	130.0	136.9
50°	183.3	162.5	140.9	121.0	106.2	97.8	94.8	93.6	95.7	98.4	104.7
52.5°	158.0	137.5	115.3	96.0	80.7	71.9	68.6	66.8	68.0	71.6	77.9
55°	130.6	111.7	91.5	71.6	56.9	48.8	44.8	43.6	44.8	48.8	55.1
57.5°	103.2	87.3	70.4	51.8	38.5	30.4	26.5	25.3	28.6	30.1	36.7
60°	80.7	67.7	53.3	37.9	26.5	20.2	16.3	15.3	16.9	19.6	25.0
62.5°	60.5	52.4	40.9	27.1	19.6	12.9	10.8	9.9	10.8	12.9	17.2
65°	43.9	37.6	28.6	19.9	13.2	9.6	7.2	6.6	7.5	9.0	12.6
67.5°	30.1	25.3	19.9	13.8	9.0	6.0	5.1	5.1	5.4	6.6	9.3
70°	19.6	16.6	12.6	9.0	6.0	4.5	3.9	3.3	3.9	4.8	6.3
72.5°	12.3	10.5	8.1	6.3	4.5	3.3	2.7	2.4	3.0	3.6	4.8
75°	7.5	5.7	4.2	3.3	2.4	2.4	2.4	1.2	1.5	2.4	3.0
77.5°	4.5	3.9	3.3	2.7	2.1	1.2	1.2	1.2	1.5	1.8	2.7
80°	2.4	2.1	1.5	1.5	1.2	0.9	1.2	0.9	0.6	1.5	1.8
82.5°	1.5	1.2	1.2	1.2	1.5	0.6	0.9	0.6	0.9	1.2	0.9
85°	0.9	0.9	0.9	0.6	1.5	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°	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
2.5°	567.9	567.6	567.9	567.6	567.6	567.6	567.9	567.9	567.6	567.6	568.2
5°	570.3	570.3	570.3	570.0	569.7	569.7	570.3	570.3	569.4	570.3	570.3
7.5°	575.4	574.5	575.4	574.2	573.6	573.9	574.2	573.6	573.0	573.3	573.3
10°	582.1	581.2	581.2	580.3	579.4	578.7	578.2	576.6	575.1	574.8	573.6
12.5°	589.9	588.4	587.5	585.7	584.2	582.1	580.3	577.8	574.8	572.7	570.6
15°	597.7	595.3	593.2	590.2	586.9	583.3	579.4	575.4	570.6	566.4	562.8
17.5°	604.0	600.7	596.8	592.0	587.2	581.8	576.0	570.3	563.4	558.0	553.8
20°	606.1	601.3	596.2	589.9	583.6	576.0	568.8	561.3	553.5	547.8	542.9
22.5°	603.4	597.7	591.4	584.8	576.3	568.2	559.8	551.1	544.1	536.3	531.8
25°	595.9	589.0	582.1	574.2	566.1	557.1	548.1	539.0	530.6	526.4	520.7
27.5°	580.6	573.0	565.5	557.4	548.1	539.0	529.7	521.0	513.7	508.0	504.7
30°	553.5	544.7	536.0	527.3	519.2	509.8	501.1	493.9	486.7	482.1	478.8
32.5°	511.9	504.1	495.4	487.0	479.4	471.6	464.4	458.1	452.9	449.9	447.5
35°	456.0	448.1	441.5	435.5	429.2	425.9	421.3	417.7	415.6	414.4	414.1
37.5°	385.5	381.0	378.9	377.7	376.5	375.6	376.2	377.7	378.9	381.0	383.4
40°	310.3	314.2	315.4	319.6	323.5	328.7	334.4	341.0	346.4	353.3	358.1
42.5°	241.7	248.9	257.3	266.4	276.0	285.3	296.7	307.3	316.9	325.6	333.2
45°	185.7	196.8	209.5	222.4	235.4	248.9	262.7	275.7	287.1	296.4	304.3
47.5°	144.8	157.1	173.4	189.3	205.0	220.9	236.3	249.8	259.4	268.5	275.4
50°	114.7	128.8	146.6	164.9	182.1	198.9	215.2	227.8	237.5	244.7	249.8
52.5°	88.8	105.6	123.7	143.0	161.3	179.7	194.7	206.5	214.3	220.6	224.5
55°	66.2	82.8	102.0	121.9	140.6	158.3	172.5	182.7	189.6	193.2	195.3
57.5°	47.9	62.9	82.2	102.0	118.9	135.7	147.2	156.5	160.4	162.5	163.4
60°	34.9	48.8	65.9	83.1	99.0	112.6	122.5	128.8	131.8	133.0	132.7
62.5°	25.6	37.6	52.4	66.8	79.8	90.9	98.7	102.9	104.4	105.0	104.1
65°	19.6	28.9	41.5	52.7	62.6	70.7	76.4	79.2	80.1	79.8	79.2
67.5°	14.4	21.7	31.0	39.4	46.7	53.0	56.0	58.4	59.0	58.1	57.2
70°	10.2	16.0	22.6	28.3	33.7	37.3	40.6	40.9	40.9	40.6	40.0
72.5°	7.2	11.1	15.3	19.3	22.6	25.3	26.5	27.4	27.1	26.8	26.2
75°	4.8	6.9	11.1	12.0	15.0	16.0	17.2	17.2	17.5	16.6	16.6
77.5°	3.0	4.8	6.6	7.8	9.0	10.2	10.8	10.8	11.1	10.8	10.8
80°	1.8	3.0	3.6	5.4	5.4	6.3	6.6	6.9	6.3	7.2	6.3
82.5°	1.2	1.8	2.7	2.7	3.3	3.9	3.9	4.2	4.2	3.9	3.9
85°	0.9	1.2	1.5	1.8	1.8	2.1	1.8	1.8	2.1	2.4	2.1
87.5°	0.3	0.6	0.3	0.6	0.6	1.2	0.9	0.9	0.9	1.2	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):

	165°	170°	175°	180°
0°	567.0	567.0	567.0	567.0
2.5°	567.6	567.9	567.6	567.6
5°	570.3	570.0	570.3	569.7
7.5°	572.4	572.4	572.1	572.1
10°	572.4	571.2	571.2	571.2
12.5°	567.9	566.4	565.5	564.9
15°	560.1	557.4	556.2	555.9
17.5°	549.9	547.5	545.9	545.0
20°	538.1	535.7	533.9	534.2
22.5°	527.9	525.2	524.0	523.4
25°	517.7	514.3	513.4	512.8
27.5°	501.1	499.3	498.4	497.5
30°	475.8	474.9	473.4	475.5
32.5°	446.6	445.1	443.9	444.8
35°	414.4	413.5	414.4	413.8
37.5°	384.9	385.8	387.0	387.6
40°	361.8	365.1	366.3	366.9
42.5°	338.6	342.5	344.9	346.4
45°	310.0	313.9	316.6	318.4
47.5°	280.5	283.8	286.5	286.2
50°	253.7	255.5	256.7	257.9
52.5°	226.6	226.6	226.9	226.9
55°	195.9	195.3	195.0	195.3
57.5°	162.2	161.6	161.3	160.4
60°	131.5	129.7	128.5	128.5
62.5°	102.9	100.8	99.9	99.6
65°	77.3	77.0	75.2	74.9
67.5°	56.0	54.8	53.6	53.9
70°	39.4	37.6	37.6	37.0
72.5°	25.6	24.7	24.4	24.4
75°	16.0	16.0	15.3	16.6
77.5°	10.5	10.5	10.2	10.5
80°	6.3	6.3	6.3	6.0
82.5°	3.9	4.2	3.9	3.9
85°	2.1	2.4	1.8	2.7
87.5°	1.2	1.5	1.2	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)