

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: P244158

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244158
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 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1124.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

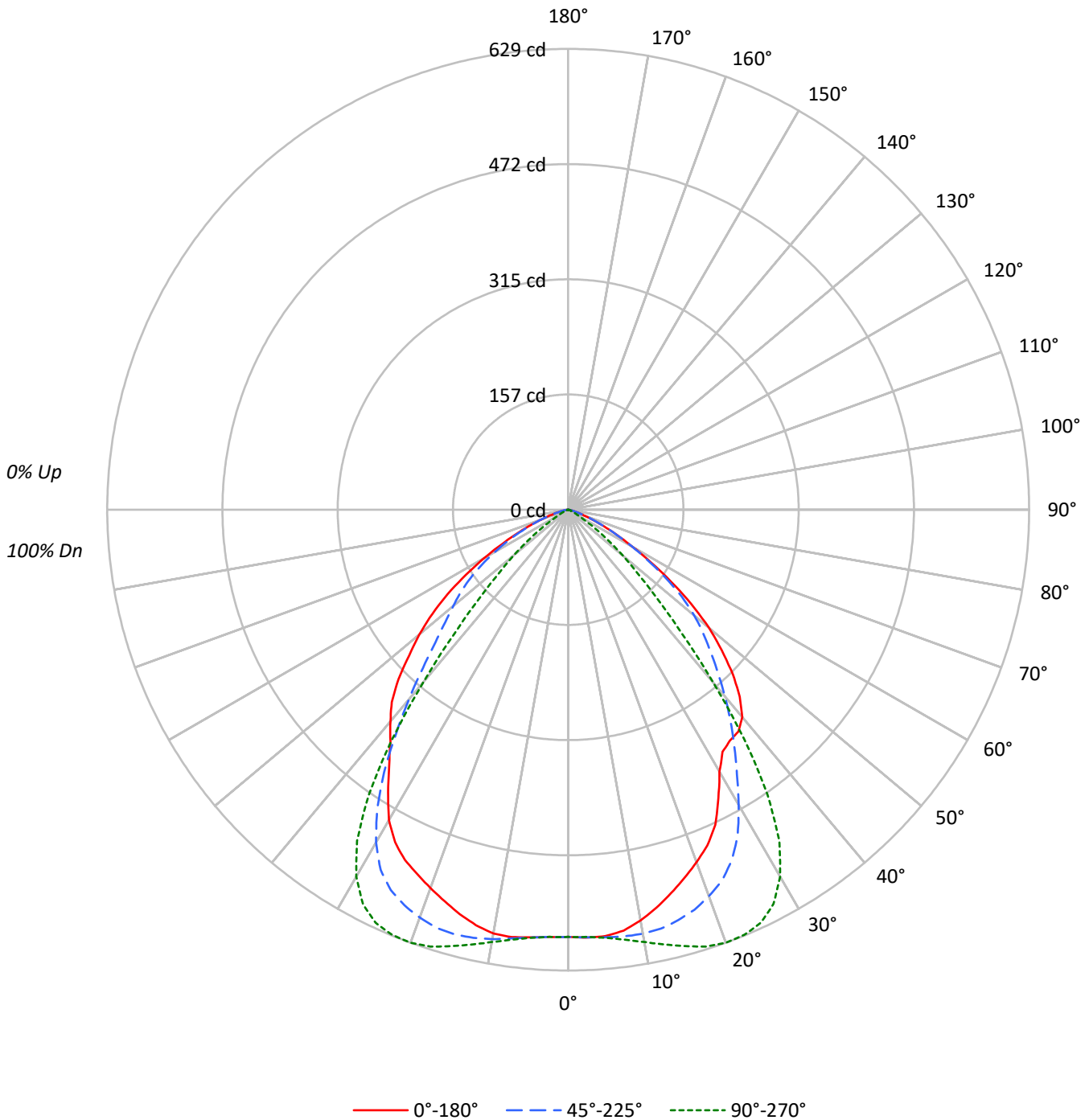
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17981	17981	17981
5°	18086	18155	18136
10°	17823	18762	18393
15°	17300	19691	18248
20°	16798	20638	18029
25°	16155	21166	17944
30°	14702	20584	17412
35°	14482	17836	16021
40°	14874	12370	15188
45°	13846	7479	14282
50°	12012	4620	12722
55°	9220	2414	10801
60°	6278	974	8153
65°	3904	496	5626
70°	2119	307	3435
75°	1108	143	2025
80°	497	160	1101
85°	318	106	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	5.0
10°-20°	166.1	14.8
20°-30°	253.4	22.5
30°-40°	264.5	23.5
40°-50°	198.6	17.7
50°-60°	122.2	10.9
60°-70°	49.7	4.4
70°-80°	11.7	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°	475.6	42.3
0°-40°	740.1	65.8
0°-60°	1060.9	94.4
0°-90°	1124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	583	583	583	583	583	
5°	584	586	586	586	586	55
15°	542	580	617	600	572	153
25°	475	528	622	573	527	216
35°	385	396	474	438	426	243
45°	318	275	172	256	328	242
55°	172	163	45	163	201	154
65°	54	54	7	73	77	56
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°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1
2.5°	584.6	583.7	584.6	584.6	585.0	584.3	584.6	585.0	584.3	584.3	584.3
5°	584.3	583.7	584.3	584.0	584.6	584.6	585.3	585.3	585.9	585.9	586.8
7.5°	579.4	578.1	579.4	580.3	580.9	582.2	583.7	585.0	586.2	587.4	589.0
10°	569.2	569.2	570.1	572.0	573.8	576.0	578.8	581.9	585.0	587.7	590.5
12.5°	556.5	555.5	557.4	559.9	562.7	566.1	570.4	575.0	580.0	585.6	589.9
15°	541.9	541.0	543.2	545.6	549.1	554.0	559.3	565.5	572.6	580.0	587.1
17.5°	527.1	526.8	528.9	532.3	535.1	540.4	547.2	554.6	562.7	572.6	581.9
20°	511.9	511.6	513.8	516.6	520.3	525.2	532.0	540.7	550.3	561.4	572.3
22.5°	496.1	496.4	498.3	501.4	504.5	509.7	516.9	525.5	536.0	548.1	560.2
25°	474.8	473.2	475.7	478.8	484.1	488.4	495.2	504.5	515.3	528.0	542.2
27.5°	443.8	443.5	445.7	448.5	453.1	458.4	465.8	475.4	486.8	500.8	514.7
30°	412.9	413.5	414.4	417.2	420.3	425.6	433.0	441.0	451.9	465.2	480.0
32.5°	391.8	391.8	393.1	394.9	397.1	399.9	405.1	411.0	419.4	428.7	439.5
35°	384.7	383.5	384.7	385.0	385.3	385.9	386.9	388.7	391.5	395.5	399.6
37.5°	381.6	380.7	380.7	379.4	377.9	376.0	373.6	370.8	367.7	363.7	360.6
40°	369.5	368.9	368.3	367.1	363.7	359.9	355.9	349.4	342.3	332.4	322.5
42.5°	346.3	345.7	345.4	342.9	339.8	335.5	330.9	324.0	315.1	302.4	288.1
45°	317.5	316.3	315.4	313.2	311.0	307.3	303.0	296.8	287.8	274.8	257.8
47.5°	284.1	283.5	283.2	282.3	280.1	277.9	275.1	270.2	262.1	249.8	232.1
50°	250.4	249.1	249.8	249.5	248.5	247.0	245.1	241.7	235.5	224.4	208.3
52.5°	211.7	211.7	211.4	212.3	212.6	212.3	212.6	208.9	203.7	195.3	181.7
55°	171.5	171.5	172.4	173.6	174.9	175.2	174.9	173.3	169.6	162.8	150.7
57.5°	133.7	133.1	134.9	136.8	138.0	139.3	138.3	137.1	134.9	129.4	120.1
60°	101.8	101.8	103.1	104.3	105.5	106.8	106.5	106.2	104.3	100.6	93.2
62.5°	74.9	75.2	75.2	76.1	77.4	78.6	79.5	78.6	77.7	75.2	70.3
65°	53.5	53.2	53.5	54.5	55.4	56.6	57.3	56.9	56.0	54.2	50.5
67.5°	35.9	35.6	36.8	37.1	37.8	39.0	38.7	39.0	38.7	37.1	34.0
70°	23.5	22.9	23.5	23.2	24.1	24.5	25.1	25.4	25.1	24.1	23.2
72.5°	14.5	14.2	14.5	14.9	15.2	15.5	16.1	16.1	15.8	15.2	13.9
75°	9.3	8.4	8.7	8.0	8.7	8.7	9.3	9.6	9.3	9.3	8.7
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.9	6.2	5.6	5.3
80°	2.8	2.8	3.1	3.1	3.1	3.4	3.1	3.1	3.1	3.4	2.5
82.5°	2.2	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.9	1.9	1.9
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°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1
2.5°	584.6	584.0	584.0	583.7	584.3	583.7	584.0	583.7	583.7	584.3	583.7
5°	586.8	587.1	586.5	586.2	587.1	587.1	587.1	586.5	586.5	586.8	586.5
7.5°	589.9	590.5	590.8	591.1	591.8	592.1	592.1	591.8	591.5	592.4	591.1
10°	593.3	594.2	596.1	597.0	598.6	598.6	599.2	599.2	598.6	599.2	598.9
12.5°	592.1	597.6	600.7	602.9	605.1	606.9	607.5	607.9	607.5	608.8	607.5
15°	594.2	598.9	603.8	607.5	611.6	613.7	614.4	616.8	617.4	617.8	615.9
17.5°	590.8	599.2	604.4	610.0	615.9	619.9	623.6	625.2	625.5	626.1	623.6
20°	583.1	592.4	600.4	608.5	615.3	621.5	624.6	628.9	627.7	630.1	626.7
22.5°	572.6	583.1	593.3	603.8	611.0	618.4	624.9	628.0	629.5	629.5	625.8
25°	555.9	568.2	579.4	590.2	601.0	610.0	617.4	622.1	623.0	622.7	618.4
27.5°	529.9	543.2	556.2	568.6	581.9	592.4	601.0	606.6	608.2	608.2	603.5
30°	494.0	508.2	520.9	535.7	549.4	561.1	573.2	578.1	580.9	580.9	575.7
32.5°	451.2	463.3	475.1	489.6	504.5	517.8	529.2	536.0	539.5	539.1	534.5
35°	404.8	410.7	419.7	430.5	443.8	456.2	467.3	473.8	479.7	479.4	475.1
37.5°	358.4	356.9	357.8	361.8	370.2	378.8	387.5	393.7	398.6	400.8	399.9
40°	312.9	304.9	297.1	294.3	294.9	298.0	302.7	307.3	312.9	315.7	316.9
42.5°	272.0	258.4	244.8	234.6	228.7	226.9	229.0	230.6	234.0	238.0	242.0
45°	239.2	221.0	203.0	187.2	177.3	171.5	170.2	171.5	173.3	177.3	182.6
47.5°	212.3	191.0	170.8	153.2	138.7	130.9	128.8	128.1	130.0	133.7	140.8
50°	188.5	167.1	144.8	124.4	109.3	100.6	97.5	96.3	98.4	101.2	107.7
52.5°	162.5	141.4	118.5	98.7	82.9	74.0	70.6	68.7	69.9	73.7	80.2
55°	134.3	114.8	94.1	73.7	58.5	50.1	46.1	44.9	46.1	50.1	56.6
57.5°	106.2	89.8	72.4	53.2	39.6	31.3	27.2	26.0	29.4	31.0	37.8
60°	82.9	69.6	54.8	39.0	27.2	20.7	16.7	15.8	17.3	20.1	25.7
62.5°	62.2	53.9	42.1	27.9	20.1	13.3	11.1	10.2	11.1	13.3	17.6
65°	45.2	38.7	29.4	20.4	13.6	9.9	7.4	6.8	7.7	9.3	13.0
67.5°	31.0	26.0	20.4	14.2	9.3	6.2	5.3	5.3	5.6	6.8	9.6
70°	20.1	17.0	13.0	9.3	6.2	4.6	4.0	3.4	4.0	5.0	6.5
72.5°	12.7	10.8	8.4	6.5	4.6	3.4	2.8	2.5	3.1	3.7	5.0
75°	7.7	5.9	4.3	3.4	2.5	2.5	2.5	1.2	1.5	2.5	3.1
77.5°	4.6	4.0	3.4	2.8	2.2	1.2	1.2	1.2	1.5	1.9	2.8
80°	2.5	2.2	1.5	1.5	1.2	0.9	1.2	0.9	0.6	1.5	1.9
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°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1
2.5°	584.0	583.7	584.0	583.7	583.7	583.7	584.0	584.0	583.7	583.7	584.3
5°	586.5	586.5	586.5	586.2	585.9	585.9	586.5	586.5	585.6	586.5	586.5
7.5°	591.8	590.8	591.8	590.5	589.9	590.2	590.5	589.9	589.3	589.6	589.6
10°	598.6	597.6	597.6	596.7	595.8	595.2	594.5	593.0	591.5	591.1	589.9
12.5°	606.6	605.1	604.1	602.3	600.7	598.6	596.7	594.2	591.1	589.0	586.8
15°	614.7	612.2	610.0	606.9	603.5	599.8	595.8	591.8	586.8	582.5	578.8
17.5°	621.2	617.8	613.7	608.8	603.8	598.3	592.4	586.5	579.4	573.8	569.5
20°	623.3	618.4	613.1	606.6	600.1	592.4	585.0	577.2	569.2	563.3	558.3
22.5°	620.5	614.7	608.2	601.4	592.7	584.3	575.7	566.7	559.6	551.5	546.9
25°	612.8	605.7	598.6	590.5	582.2	572.9	563.6	554.3	545.6	541.3	535.4
27.5°	597.0	589.3	581.5	573.2	563.6	554.3	544.7	535.7	528.3	522.4	519.0
30°	569.2	560.2	551.2	542.2	533.9	524.3	515.3	507.9	500.5	495.8	492.4
32.5°	526.5	518.4	509.4	500.8	493.0	485.0	477.6	471.1	465.8	462.7	460.2
35°	468.9	460.8	454.0	447.8	441.3	437.9	433.3	429.6	427.4	426.2	425.9
37.5°	396.5	391.8	389.7	388.4	387.2	386.3	386.9	388.4	389.7	391.8	394.3
40°	319.1	323.1	324.4	328.7	332.7	338.0	343.9	350.7	356.2	363.3	368.3
42.5°	248.5	256.0	264.6	273.9	283.8	293.4	305.2	316.0	325.9	334.9	342.6
45°	191.0	202.4	215.4	228.7	242.0	256.0	270.2	283.5	295.3	304.9	312.9
47.5°	148.9	161.6	178.3	194.7	210.8	227.2	243.0	256.9	266.8	276.1	283.2
50°	117.9	132.5	150.7	169.6	187.2	204.6	221.3	234.3	244.2	251.6	256.9
52.5°	91.3	108.6	127.2	147.0	165.9	184.8	200.2	212.3	220.4	226.9	230.9
55°	68.1	85.1	104.9	125.3	144.5	162.8	177.3	187.9	195.0	198.7	200.9
57.5°	49.2	64.7	84.5	104.9	122.2	139.6	151.3	160.9	165.0	167.1	168.1
60°	35.9	50.1	67.8	85.4	101.8	115.8	126.0	132.5	135.6	136.8	136.5
62.5°	26.3	38.7	53.9	68.7	82.0	93.5	101.5	105.8	107.4	108.0	107.1
65°	20.1	29.7	42.7	54.2	64.4	72.7	78.6	81.4	82.3	82.0	81.4
67.5°	14.9	22.3	31.9	40.5	48.0	54.5	57.6	60.0	60.7	59.7	58.8
70°	10.5	16.4	23.2	29.1	34.7	38.4	41.8	42.1	42.1	41.8	41.2
72.5°	7.4	11.5	15.8	19.8	23.2	26.0	27.2	28.2	27.9	27.5	26.9
75°	5.0	7.1	11.5	12.4	15.5	16.4	17.6	17.6	17.9	17.0	17.0
77.5°	3.1	5.0	6.8	8.0	9.3	10.5	11.1	11.1	11.5	11.1	11.1
80°	1.9	3.1	3.7	5.6	5.6	6.5	6.8	7.1	6.5	7.4	6.5
82.5°	1.2	1.9	2.8	2.8	3.4	4.0	4.0	4.3	4.3	4.0	4.0
85°	0.9	1.2	1.5	1.9	1.9	2.2	1.9	1.9	2.2	2.5	2.2
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°	583.1	583.1	583.1	583.1
2.5°	583.7	584.0	583.7	583.7
5°	586.5	586.2	586.5	585.9
7.5°	588.7	588.7	588.4	588.4
10°	588.7	587.4	587.4	587.4
12.5°	584.0	582.5	581.5	580.9
15°	576.0	573.2	572.0	571.6
17.5°	565.5	563.0	561.4	560.5
20°	553.4	550.9	549.1	549.4
22.5°	542.9	540.1	538.8	538.2
25°	532.3	528.9	528.0	527.4
27.5°	515.3	513.5	512.5	511.6
30°	489.3	488.4	486.8	489.0
32.5°	459.3	457.7	456.5	457.4
35°	426.2	425.2	426.2	425.6
37.5°	395.9	396.8	398.0	398.6
40°	372.0	375.4	376.7	377.3
42.5°	348.2	352.2	354.7	356.2
45°	318.8	322.8	325.6	327.5
47.5°	288.5	291.9	294.6	294.3
50°	260.9	262.8	264.0	265.2
52.5°	233.0	233.0	233.4	233.4
55°	201.5	200.9	200.6	200.9
57.5°	166.8	166.2	165.9	165.0
60°	135.3	133.4	132.2	132.2
62.5°	105.8	103.7	102.8	102.4
65°	79.5	79.2	77.4	77.1
67.5°	57.6	56.3	55.1	55.4
70°	40.5	38.7	38.7	38.1
72.5°	26.3	25.4	25.1	25.1
75°	16.4	16.4	15.8	17.0
77.5°	10.8	10.8	10.5	10.8
80°	6.5	6.5	6.5	6.2
82.5°	4.0	4.3	4.0	4.0
85°	2.2	2.5	1.9	2.8
87.5°	1.2	1.5	1.2	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)