

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: P244176

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244176
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 EC8B10840 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1190.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

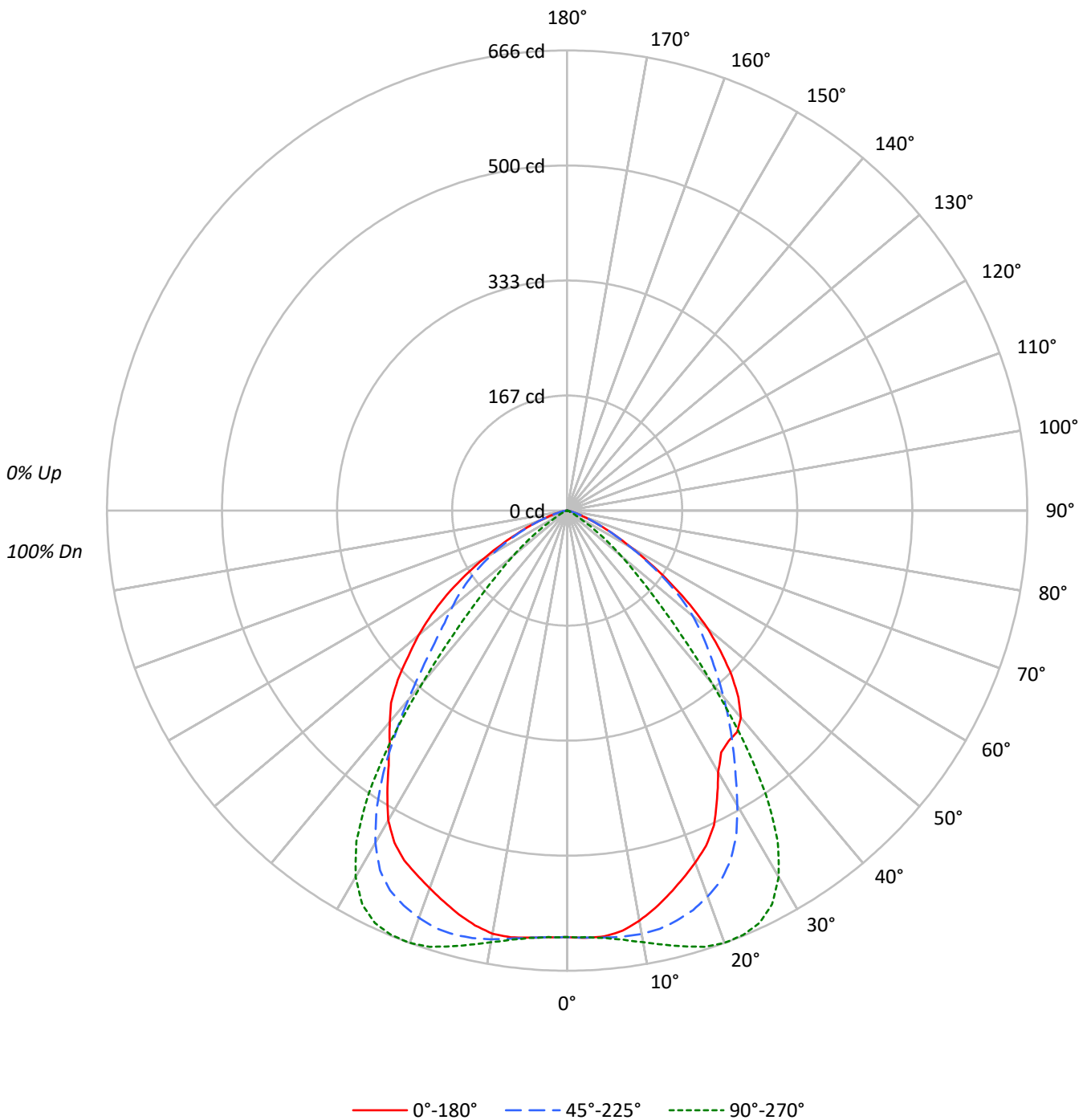
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19035	19035	19035
5°	19148	19219	19201
10°	18869	19864	19473
15°	18318	20846	19320
20°	17786	21848	19085
25°	17101	22408	18999
30°	15564	21795	18434
35°	15332	18886	16959
40°	15747	13099	16077
45°	14661	7915	15119
50°	12718	4888	13471
55°	9758	2554	11435
60°	6648	1030	8628
65°	4137	525	5954
70°	2245	325	3633
75°	1168	155	2145
80°	533	178	1172
85°	354	106	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	5.0
10°-20°	175.9	14.8
20°-30°	268.3	22.5
30°-40°	280.0	23.5
40°-50°	210.3	17.7
50°-60°	129.4	10.9
60°-70°	52.7	4.4
70°-80°	12.4	1.0
80°-90°	1.7	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°	503.5	42.3
0°-40°	783.5	65.8
0°-60°	1123.2	94.4
0°-90°	1190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1190.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	617	617	617	617	617	
5°	619	620	621	620	620	59
15°	574	614	653	635	605	162
25°	503	559	659	606	558	229
35°	407	419	502	464	450	257
45°	336	291	182	271	347	257
55°	182	172	48	172	213	163
65°	57	57	7	77	82	59
75°	10	10	1	17	18	12
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°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3
2.5°	619.0	618.0	619.0	619.0	619.3	618.6	619.0	619.3	618.6	618.6	618.6
5°	618.6	618.0	618.6	618.3	619.0	619.0	619.6	619.6	620.3	620.3	621.3
7.5°	613.4	612.1	613.4	614.4	615.0	616.4	618.0	619.3	620.6	621.9	623.6
10°	602.6	602.6	603.6	605.5	607.5	609.8	612.7	616.0	619.3	622.2	625.2
12.5°	589.2	588.2	590.1	592.8	595.7	599.3	603.9	608.8	614.1	620.0	624.5
15°	573.8	572.8	575.1	577.7	581.3	586.5	592.1	598.7	606.2	614.1	621.6
17.5°	558.0	557.7	560.0	563.6	566.5	572.1	579.3	587.2	595.7	606.2	616.0
20°	542.0	541.6	543.9	546.9	550.8	556.1	563.3	572.4	582.6	594.4	605.9
22.5°	525.3	525.6	527.5	530.8	534.1	539.7	547.2	556.4	567.5	580.3	593.1
25°	502.6	501.0	503.6	506.9	512.5	517.1	524.3	534.1	545.6	559.0	574.1
27.5°	469.9	469.5	471.9	474.8	479.7	485.3	493.1	503.3	515.4	530.2	544.9
30°	437.1	437.8	438.8	441.7	445.0	450.5	458.4	466.9	478.4	492.5	508.2
32.5°	414.8	414.8	416.1	418.1	420.4	423.4	428.9	435.1	444.0	453.8	465.3
35°	407.3	406.0	407.3	407.6	408.0	408.6	409.6	411.6	414.5	418.8	423.0
37.5°	404.0	403.0	403.0	401.7	400.1	398.1	395.5	392.5	389.3	385.0	381.7
40°	391.2	390.6	389.9	388.6	385.0	381.1	376.8	369.9	362.4	351.9	341.4
42.5°	366.7	366.0	365.7	363.1	359.8	355.2	350.3	343.1	333.6	320.1	305.1
45°	336.2	334.9	333.9	331.6	329.3	325.4	320.8	314.2	304.7	291.0	273.0
47.5°	300.8	300.1	299.8	298.8	296.5	294.2	291.3	286.1	277.5	264.4	245.8
50°	265.1	263.8	264.4	264.1	263.1	261.5	259.5	255.9	249.4	237.6	220.5
52.5°	224.1	224.1	223.8	224.8	225.1	224.8	225.1	221.2	215.6	206.8	192.3
55°	181.5	181.5	182.5	183.8	185.1	185.5	185.1	183.5	179.6	172.4	159.6
57.5°	141.6	140.9	142.9	144.8	146.1	147.5	146.5	145.2	142.9	137.0	127.1
60°	107.8	107.8	109.1	110.4	111.7	113.0	112.7	112.4	110.4	106.5	98.6
62.5°	79.3	79.6	79.6	80.6	81.9	83.2	84.2	83.2	82.2	79.6	74.4
65°	56.7	56.4	56.7	57.7	58.7	60.0	60.6	60.3	59.3	57.3	53.4
67.5°	38.0	37.7	39.0	39.3	40.0	41.3	41.0	41.3	41.0	39.3	36.0
70°	24.9	24.2	24.9	24.6	25.6	25.9	26.5	26.9	26.5	25.6	24.6
72.5°	15.4	15.1	15.4	15.7	16.1	16.4	17.0	17.0	16.7	16.1	14.7
75°	9.8	8.8	9.2	8.5	9.2	9.2	9.8	10.2	9.8	9.8	9.2
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.2	6.6	5.9	5.6
80°	3.0	3.0	3.3	3.3	3.3	3.6	3.3	3.3	3.3	3.6	2.6
82.5°	2.3	2.0	2.0	2.0	2.3	2.0	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.3	1.0	0.7	1.0	1.0	1.3	1.0	1.0	1.0	1.3
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.7	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°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3
2.5°	619.0	618.3	618.3	618.0	618.6	618.0	618.3	618.0	618.0	618.6	618.0
5°	621.3	621.6	620.9	620.6	621.6	621.6	621.6	620.9	620.9	621.3	620.9
7.5°	624.5	625.2	625.5	625.9	626.5	626.8	626.8	626.5	626.2	627.2	625.9
10°	628.1	629.1	631.1	632.1	633.7	633.7	634.4	634.4	633.7	634.4	634.0
12.5°	626.8	632.7	636.0	638.3	640.6	642.6	643.2	643.5	643.2	644.5	643.2
15°	629.1	634.0	639.3	643.2	647.5	649.8	650.4	653.0	653.7	654.0	652.1
17.5°	625.5	634.4	639.9	645.8	652.1	656.3	660.3	661.9	662.2	662.9	660.3
20°	617.3	627.2	635.7	644.2	651.4	658.0	661.2	665.8	664.5	667.1	663.5
22.5°	606.2	617.3	628.1	639.3	646.8	654.7	661.6	664.8	666.5	666.5	662.5
25°	588.5	601.6	613.4	624.9	636.3	645.8	653.7	658.6	659.6	659.3	654.7
27.5°	561.0	575.1	588.8	601.9	616.0	627.2	636.3	642.2	643.9	643.9	639.0
30°	523.0	538.0	551.5	567.2	581.6	594.1	606.9	612.1	615.0	615.0	609.5
32.5°	477.7	490.5	503.0	518.4	534.1	548.2	560.3	567.5	571.1	570.8	565.9
35°	428.6	434.8	444.3	455.8	469.9	483.0	494.8	501.7	507.9	507.6	503.0
37.5°	379.4	377.8	378.8	383.0	391.9	401.1	410.2	416.8	422.0	424.3	423.4
40°	331.3	322.8	314.6	311.6	312.3	315.5	320.5	325.4	331.3	334.2	335.5
42.5°	288.0	273.6	259.2	248.4	242.1	240.2	242.5	244.1	247.7	252.0	256.2
45°	253.3	234.0	215.0	198.2	187.8	181.5	180.2	181.5	183.5	187.8	193.3
47.5°	224.8	202.2	180.9	162.2	146.8	138.6	136.3	135.7	137.6	141.6	149.1
50°	199.5	176.9	153.4	131.7	115.7	106.5	103.2	101.9	104.2	107.1	114.0
52.5°	172.0	149.7	125.5	104.5	87.8	78.3	74.7	72.7	74.1	78.0	84.9
55°	142.2	121.6	99.6	78.0	61.9	53.1	48.8	47.5	48.8	53.1	60.0
57.5°	112.4	95.0	76.7	56.4	41.9	33.1	28.8	27.5	31.1	32.8	40.0
60°	87.8	73.7	58.0	41.3	28.8	22.0	17.7	16.7	18.4	21.3	27.2
62.5°	65.9	57.0	44.6	29.5	21.3	14.1	11.8	10.8	11.8	14.1	18.7
65°	47.8	41.0	31.1	21.6	14.4	10.5	7.9	7.2	8.2	9.8	13.8
67.5°	32.8	27.5	21.6	15.1	9.8	6.6	5.6	5.6	5.9	7.2	10.2
70°	21.3	18.0	13.8	9.8	6.6	4.9	4.3	3.6	4.3	5.2	6.9
72.5°	13.4	11.5	8.8	6.9	4.9	3.6	3.0	2.6	3.3	3.9	5.2
75°	8.2	6.2	4.6	3.6	2.6	2.6	2.6	1.3	1.6	2.6	3.3
77.5°	4.9	4.3	3.6	3.0	2.3	1.3	1.3	1.3	1.6	2.0	3.0
80°	2.6	2.3	1.6	1.6	1.3	1.0	1.3	1.0	0.7	1.6	2.0
82.5°	1.6	1.3	1.3	1.3	1.6	0.7	1.0	0.7	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.7	1.6	0.7	0.7	0.3	0.3	0.7	0.7
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°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3
2.5°	618.3	618.0	618.3	618.0	618.0	618.0	618.3	618.3	618.0	618.0	618.6
5°	620.9	620.9	620.9	620.6	620.3	620.3	620.9	620.9	620.0	620.9	620.9
7.5°	626.5	625.5	626.5	625.2	624.5	624.9	625.2	624.5	623.9	624.2	624.2
10°	633.7	632.7	632.7	631.8	630.8	630.1	629.5	627.8	626.2	625.9	624.5
12.5°	642.2	640.6	639.6	637.6	636.0	633.7	631.8	629.1	625.9	623.6	621.3
15°	650.8	648.1	645.8	642.6	639.0	635.0	630.8	626.5	621.3	616.7	612.7
17.5°	657.6	654.0	649.8	644.5	639.3	633.4	627.2	620.9	613.4	607.5	602.9
20°	659.9	654.7	649.1	642.2	635.4	627.2	619.3	611.1	602.6	596.4	591.1
22.5°	657.0	650.8	643.9	636.7	627.5	618.6	609.5	600.0	592.4	583.9	579.0
25°	648.8	641.3	633.7	625.2	616.4	606.5	596.7	586.9	577.7	573.1	566.9
27.5°	632.1	623.9	615.7	606.9	596.7	586.9	576.7	567.2	559.3	553.1	549.5
30°	602.6	593.1	583.6	574.1	565.2	555.1	545.6	537.7	529.8	524.9	521.3
32.5°	557.4	548.9	539.4	530.2	522.0	513.5	505.6	498.7	493.1	489.9	487.2
35°	496.4	487.9	480.7	474.1	467.3	463.7	458.7	454.8	452.5	451.2	450.9
37.5°	419.7	414.8	412.5	411.2	409.9	408.9	409.6	411.2	412.5	414.8	417.5
40°	337.8	342.1	343.4	348.0	352.2	357.8	364.0	371.3	377.1	384.7	389.9
42.5°	263.1	271.0	280.2	290.0	300.5	310.6	323.1	334.5	345.0	354.5	362.7
45°	202.2	214.3	228.1	242.1	256.2	271.0	286.1	300.1	312.6	322.8	331.3
47.5°	157.6	171.0	188.7	206.1	223.1	240.5	257.2	272.0	282.5	292.3	299.8
50°	124.8	140.2	159.6	179.6	198.2	216.6	234.3	248.0	258.5	266.4	272.0
52.5°	96.7	115.0	134.7	155.6	175.6	195.6	212.0	224.8	233.3	240.2	244.4
55°	72.1	90.1	111.1	132.7	153.0	172.4	187.8	198.9	206.4	210.4	212.7
57.5°	52.1	68.5	89.5	111.1	129.4	147.8	160.2	170.4	174.6	176.9	177.9
60°	38.0	53.1	71.8	90.4	107.8	122.5	133.4	140.2	143.5	144.8	144.5
62.5°	27.9	41.0	57.0	72.7	86.8	99.0	107.5	112.1	113.7	114.4	113.4
65°	21.3	31.5	45.2	57.3	68.2	77.0	83.2	86.2	87.2	86.8	86.2
67.5°	15.7	23.6	33.8	42.9	50.8	57.7	60.9	63.6	64.2	63.2	62.3
70°	11.1	17.4	24.6	30.8	36.7	40.6	44.2	44.6	44.6	44.2	43.6
72.5°	7.9	12.1	16.7	21.0	24.6	27.5	28.8	29.8	29.5	29.2	28.5
75°	5.2	7.5	12.1	13.1	16.4	17.4	18.7	18.7	19.0	18.0	18.0
77.5°	3.3	5.2	7.2	8.5	9.8	11.1	11.8	11.8	12.1	11.8	11.8
80°	2.0	3.3	3.9	5.9	5.9	6.9	7.2	7.5	6.9	7.9	6.9
82.5°	1.3	2.0	3.0	3.0	3.6	4.3	4.3	4.6	4.6	4.3	4.3
85°	1.0	1.3	1.6	2.0	2.0	2.3	2.0	2.0	2.3	2.6	2.3
87.5°	0.3	0.7	0.3	0.7	0.7	1.3	1.0	1.0	1.0	1.3	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):

	165°	170°	175°	180°
0°	617.3	617.3	617.3	617.3
2.5°	618.0	618.3	618.0	618.0
5°	620.9	620.6	620.9	620.3
7.5°	623.2	623.2	622.9	622.9
10°	623.2	621.9	621.9	621.9
12.5°	618.3	616.7	615.7	615.0
15°	609.8	606.9	605.5	605.2
17.5°	598.7	596.0	594.4	593.4
20°	585.9	583.3	581.3	581.6
22.5°	574.7	571.8	570.5	569.8
25°	563.6	560.0	559.0	558.4
27.5°	545.6	543.6	542.6	541.6
30°	518.0	517.1	515.4	517.7
32.5°	486.3	484.6	483.3	484.3
35°	451.2	450.2	451.2	450.5
37.5°	419.1	420.1	421.4	422.0
40°	393.9	397.5	398.8	399.4
42.5°	368.6	372.9	375.5	377.1
45°	337.5	341.8	344.7	346.7
47.5°	305.4	309.0	311.9	311.6
50°	276.2	278.2	279.5	280.8
52.5°	246.7	246.7	247.1	247.1
55°	213.3	212.7	212.3	212.7
57.5°	176.6	176.0	175.6	174.6
60°	143.2	141.2	139.9	139.9
62.5°	112.1	109.8	108.8	108.5
65°	84.2	83.9	81.9	81.6
67.5°	60.9	59.6	58.3	58.7
70°	42.9	41.0	41.0	40.3
72.5°	27.9	26.9	26.5	26.5
75°	17.4	17.4	16.7	18.0
77.5°	11.5	11.5	11.1	11.5
80°	6.9	6.9	6.9	6.6
82.5°	4.3	4.6	4.3	4.3
85°	2.3	2.6	2.0	3.0
87.5°	1.3	1.6	1.3	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)