

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: P244608

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244608
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 EC8B10840 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1148.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

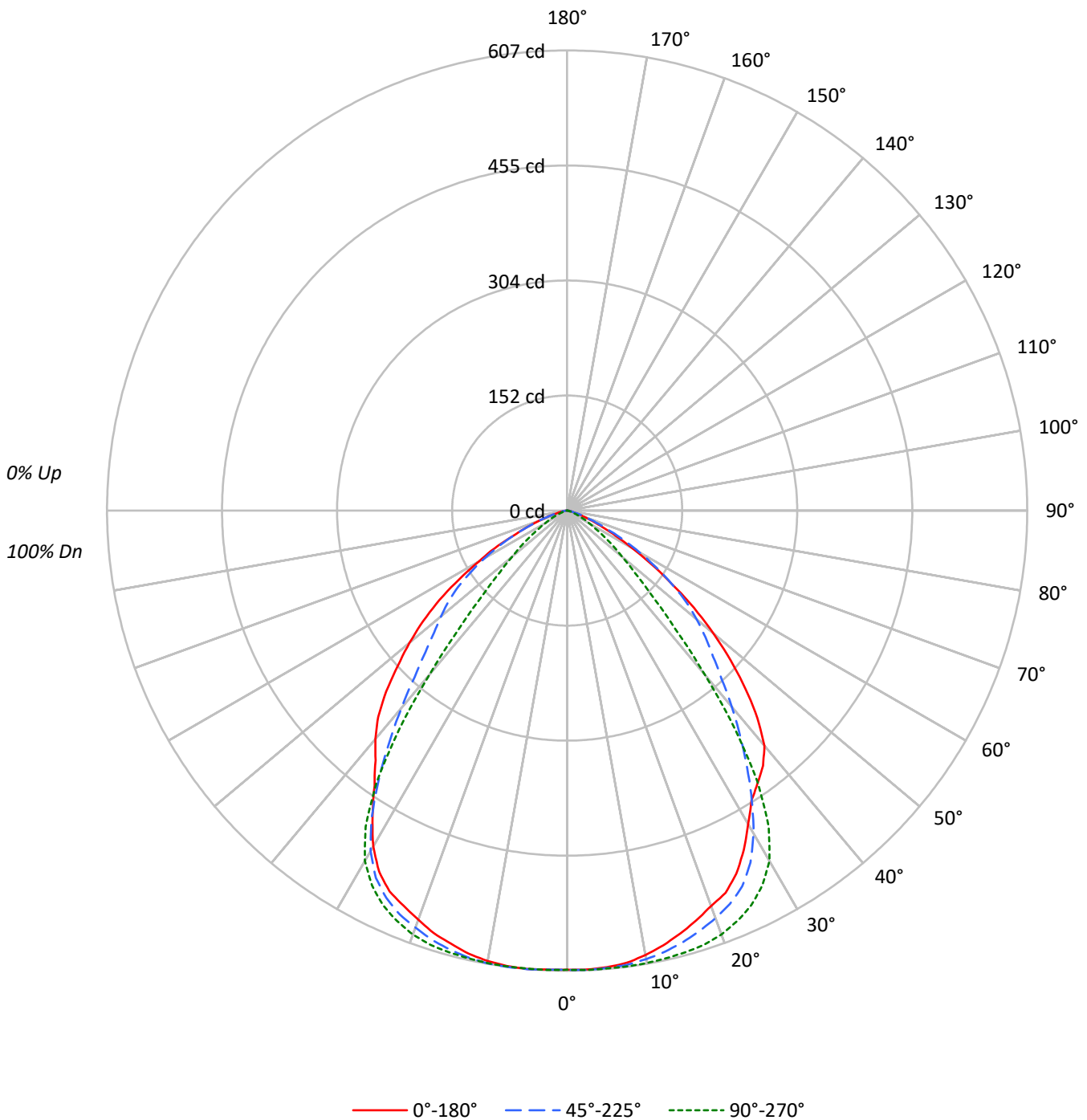
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18678	18678	18678
5°	18718	18771	18789
10°	18640	18975	18894
15°	18433	19253	18889
20°	18213	19525	18843
25°	17975	19547	18860
30°	17006	18996	18220
35°	16499	16511	16680
40°	16295	11360	15836
45°	14517	6820	14718
50°	12070	4538	13010
55°	9053	3129	11032
60°	6136	2085	8320
65°	3699	1350	5720
70°	2056	730	3516
75°	929	310	1823
80°	817	337	1279
85°	920	460	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	5.0
10°-20°	167.9	14.6
20°-30°	254.8	22.2
30°-40°	267.6	23.3
40°-50°	200.6	17.5
50°-60°	128.7	11.2
60°-70°	55.1	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°	480.5	41.9
0°-40°	748.1	65.2
0°-60°	1077.5	93.9
0°-90°	1148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	606	606	606	606	606	
5°	605	606	606	607	607	57
15°	577	590	603	599	592	163
25°	528	547	574	564	554	241
35°	438	414	439	433	443	275
45°	333	272	156	264	338	255
55°	168	168	58	176	205	153
65°	51	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°	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7
2.5°	606.0	606.7	606.4	606.4	606.0	606.4	606.4	607.0	607.0	606.4	606.0
5°	604.7	605.4	605.4	604.7	604.7	606.4	605.4	606.0	606.0	605.7	605.7
7.5°	601.8	601.8	603.1	602.1	602.1	603.1	602.8	603.4	604.1	604.4	604.4
10°	595.3	596.0	596.3	596.3	596.6	597.6	598.2	599.5	600.2	600.8	601.2
12.5°	587.2	588.2	588.5	588.2	589.1	590.4	592.1	593.7	594.7	596.0	596.9
15°	577.4	577.4	578.1	579.0	579.7	581.7	583.3	585.2	587.8	589.5	591.1
17.5°	566.7	567.3	568.3	568.3	569.6	572.9	573.8	576.8	579.7	581.3	584.6
20°	555.0	555.6	556.6	557.3	558.9	561.5	563.4	566.0	569.3	572.2	575.5
22.5°	545.9	544.6	545.2	545.9	547.5	549.8	552.1	555.3	558.6	561.5	564.7
25°	528.3	528.7	529.6	530.3	532.2	534.2	536.8	540.7	543.6	546.9	550.4
27.5°	504.6	504.9	506.5	506.5	508.2	511.4	513.0	516.3	520.2	523.4	527.7
30°	477.6	478.3	478.3	479.6	480.5	482.2	483.8	487.0	489.0	491.9	497.8
32.5°	452.9	453.5	453.2	452.9	451.9	451.6	451.3	451.9	452.6	453.5	455.8
35°	438.3	436.6	435.3	433.1	430.5	427.2	424.3	420.4	416.8	413.9	410.6
37.5°	424.3	424.0	422.0	418.8	413.6	407.7	400.9	392.4	384.0	374.9	366.1
40°	404.8	403.8	402.2	397.6	391.8	384.6	375.5	365.1	351.5	337.5	323.2
42.5°	371.6	371.9	370.0	366.4	360.9	354.1	344.6	333.3	318.6	302.0	283.5
45°	332.9	332.9	332.3	329.3	325.5	319.9	312.8	303.3	289.0	272.1	252.3
47.5°	292.6	292.9	292.0	291.3	289.7	286.1	280.9	273.8	263.7	247.4	227.6
50°	251.6	251.6	253.3	252.9	252.9	251.6	249.4	245.1	236.4	223.4	204.8
52.5°	210.7	211.3	212.3	213.6	215.2	217.8	215.2	213.3	207.8	197.7	181.7
55°	168.4	169.1	170.7	173.0	174.9	177.5	178.2	178.2	175.2	168.4	156.4
57.5°	132.3	131.3	132.7	134.6	137.2	139.8	141.8	144.0	143.7	139.2	129.4
60°	99.5	99.8	100.8	102.7	104.7	107.0	109.6	111.5	112.5	110.2	104.0
62.5°	72.5	72.5	73.8	75.8	76.7	80.0	81.6	82.6	83.6	83.2	79.3
65°	50.7	51.4	52.0	53.0	54.0	55.9	56.9	58.8	59.5	59.8	56.9
67.5°	35.8	34.8	35.4	36.1	37.1	38.4	40.3	40.3	41.3	41.3	39.3
70°	22.8	22.8	23.1	24.1	24.7	25.0	25.7	26.3	27.3	27.0	27.0
72.5°	15.3	15.0	15.3	15.6	15.9	16.9	16.9	17.2	17.9	18.2	16.9
75°	7.8	8.1	8.8	8.5	9.4	8.8	9.1	10.1	9.8	9.1	9.1
77.5°	6.5	6.5	6.5	6.2	6.8	6.8	6.5	7.2	6.8	6.8	6.5
80°	4.6	4.9	4.6	4.2	4.6	4.2	4.2	4.2	4.2	4.2	3.9
82.5°	3.6	2.9	3.3	2.9	3.3	3.3	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	0.7
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°	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7
2.5°	606.7	606.4	607.0	606.7	606.7	606.4	606.7	606.4	607.0	605.7	606.0
5°	606.7	606.0	606.4	606.7	607.0	606.4	606.4	606.4	607.0	606.4	606.7
7.5°	605.4	605.1	606.0	606.7	606.4	606.0	606.7	606.4	607.0	606.7	607.3
10°	602.8	603.1	603.8	604.7	605.1	605.4	606.0	606.0	607.0	605.7	606.4
12.5°	598.9	600.2	601.8	602.5	603.8	603.8	604.4	604.7	605.4	605.1	606.0
15°	594.0	595.6	597.6	599.2	600.8	601.8	602.8	603.1	604.1	603.1	603.4
17.5°	588.2	590.1	593.0	595.0	597.6	598.6	599.9	600.5	601.5	600.8	601.2
20°	580.0	582.3	585.5	588.5	590.1	592.4	594.0	595.0	595.6	595.0	595.3
22.5°	568.6	571.9	576.1	578.4	581.7	583.6	583.9	586.2	587.8	586.2	586.9
25°	555.3	558.6	561.8	566.7	569.6	571.9	574.2	574.5	576.1	575.8	575.5
27.5°	533.2	537.4	543.0	546.9	550.8	554.3	556.9	557.6	559.2	558.6	558.9
30°	503.0	507.5	512.7	518.9	524.4	528.0	531.3	533.5	535.2	534.2	533.9
32.5°	460.1	464.6	470.1	476.3	482.8	488.0	491.9	494.8	496.8	496.1	494.5
35°	411.0	412.3	415.8	420.7	426.2	431.8	435.3	438.6	440.9	441.5	441.5
37.5°	360.6	356.3	353.7	353.7	357.0	359.3	362.5	364.5	368.0	369.3	370.3
40°	311.8	302.0	292.9	286.1	281.6	281.2	281.2	282.2	285.5	289.7	293.6
42.5°	268.2	252.6	238.6	226.0	216.9	211.7	209.4	209.7	212.3	216.2	222.7
45°	233.4	213.9	196.4	181.1	168.7	160.6	156.7	156.4	158.3	162.9	170.0
47.5°	206.5	185.6	165.8	148.3	134.9	126.1	121.6	120.3	121.6	125.8	134.3
50°	184.0	162.6	142.1	123.9	109.6	100.5	96.2	94.6	96.2	99.8	108.3
52.5°	163.2	141.1	121.9	104.4	89.1	81.3	76.7	75.8	76.7	81.0	87.8
55°	139.2	120.3	101.4	83.9	70.6	62.8	59.2	58.2	59.2	63.1	70.2
57.5°	115.4	99.2	82.6	66.6	55.3	48.4	45.2	43.9	46.2	48.8	57.2
60°	93.3	80.3	66.3	52.3	42.9	36.7	34.1	33.8	34.5	37.7	43.6
62.5°	73.2	62.4	51.4	40.0	32.2	29.6	26.3	26.0	26.7	28.6	33.2
65°	52.7	45.8	37.4	29.3	23.1	19.5	18.2	18.5	19.2	20.5	24.7
67.5°	36.7	31.9	26.0	20.5	15.9	14.3	13.0	12.7	13.0	15.3	17.6
70°	24.7	21.8	17.6	15.6	11.1	8.8	9.1	8.1	9.4	9.4	11.4
72.5°	16.3	14.3	11.7	9.1	7.8	6.2	6.2	5.9	6.5	6.8	8.5
75°	8.5	6.5	6.5	4.6	3.3	1.6	2.9	2.6	2.3	2.6	3.3
77.5°	5.9	4.9	4.6	3.6	3.3	2.6	2.6	2.6	2.6	2.9	3.3
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°	0.7	1.0	1.0	1.0	0.7	0.3	0.7	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°	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7
2.5°	606.7	607.0	607.0	606.7	606.7	606.0	607.3	606.4	606.7	608.0	607.0
5°	607.3	607.7	607.7	607.3	607.3	607.3	607.7	607.7	607.3	607.0	607.7
7.5°	608.6	608.3	608.3	607.7	607.7	607.0	607.7	606.7	607.3	606.7	607.7
10°	607.0	607.3	607.0	606.7	606.7	606.4	606.4	605.4	605.7	604.7	605.4
12.5°	606.0	605.7	605.7	605.1	604.4	603.8	603.4	602.5	602.5	600.2	601.2
15°	603.4	603.8	602.8	601.5	600.8	599.2	598.6	597.3	596.0	594.3	594.7
17.5°	601.2	600.2	598.9	597.6	595.0	593.7	592.4	590.4	589.8	587.8	587.2
20°	594.3	593.7	592.1	589.8	588.2	585.2	583.9	582.0	580.3	578.4	577.4
22.5°	585.5	584.9	582.9	580.7	578.1	576.8	575.5	571.9	570.3	568.3	568.0
25°	574.5	573.5	571.6	569.0	567.7	564.1	562.8	560.2	559.5	557.6	557.3
27.5°	557.6	556.3	554.0	550.8	548.5	546.2	544.9	543.0	542.3	540.4	540.0
30°	532.2	530.6	526.1	524.8	520.8	518.6	518.6	516.0	516.3	515.0	515.0
32.5°	492.2	489.6	486.1	483.5	480.9	479.6	479.6	478.6	479.2	479.2	479.9
35°	439.2	435.7	433.7	432.1	432.1	433.4	437.3	438.3	440.2	441.8	443.1
37.5°	371.3	371.0	373.2	375.2	380.1	385.6	392.4	398.3	403.8	407.7	411.6
40°	297.8	305.9	312.4	321.6	329.0	339.8	352.1	362.2	371.6	378.4	385.6
42.5°	232.5	242.9	256.5	269.9	283.2	297.8	314.1	328.1	340.4	349.8	357.3
45°	181.1	195.4	212.0	228.9	246.1	264.3	281.2	295.5	308.5	318.3	325.8
47.5°	146.0	161.6	180.4	199.0	218.5	237.7	256.5	268.9	279.6	287.4	294.2
50°	120.6	137.2	157.0	178.2	197.7	216.9	233.1	245.1	253.9	260.8	265.0
52.5°	100.8	118.3	139.5	160.6	180.1	197.7	212.3	221.4	228.6	233.4	237.3
55°	83.2	100.1	120.0	139.8	159.0	175.6	187.6	194.4	199.9	202.9	205.2
57.5°	68.0	83.6	101.8	120.0	136.6	150.2	159.6	166.5	169.1	171.3	171.0
60°	53.3	68.0	84.5	100.1	114.4	125.5	132.3	136.2	138.2	139.2	138.5
62.5°	41.9	55.3	68.0	81.6	92.0	101.4	107.9	107.9	108.9	109.2	110.2
65°	31.2	41.3	52.3	62.4	70.9	77.1	80.6	81.6	82.9	82.6	81.9
67.5°	23.1	30.6	38.7	46.2	52.0	55.9	58.5	60.8	60.5	59.8	59.5
70°	15.9	20.8	28.0	32.5	36.7	40.6	41.3	41.6	41.9	42.3	41.6
72.5°	11.1	14.6	18.5	22.4	25.0	26.7	28.3	28.6	28.6	28.6	28.3
75°	5.5	7.5	11.1	12.7	15.0	15.6	16.9	16.9	17.9	16.6	16.3
77.5°	4.9	5.9	7.8	9.1	10.1	11.1	11.4	12.4	12.0	11.4	11.7
80°	2.9	3.6	4.9	5.5	6.8	7.2	7.5	7.8	7.5	7.8	7.8
82.5°	2.3	2.6	3.3	3.3	4.2	4.2	4.6	4.6	4.9	4.9	4.9
85°	1.3	2.3	1.9	3.9	2.6	2.6	3.3	3.9	3.3	3.3	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°	605.7	605.7	605.7	605.7
2.5°	606.7	607.3	606.4	606.0
5°	607.7	607.7	607.0	607.0
7.5°	607.7	607.7	606.7	606.0
10°	605.1	605.1	604.1	603.4
12.5°	600.2	600.2	599.9	598.9
15°	594.0	594.0	592.7	591.7
17.5°	585.5	586.2	584.6	584.6
20°	576.4	576.1	574.8	574.2
22.5°	567.0	566.4	566.0	564.1
25°	556.9	556.3	555.3	554.3
27.5°	539.7	539.4	538.4	537.1
30°	513.4	513.0	511.7	511.7
32.5°	479.2	478.9	477.6	477.9
35°	443.8	445.1	444.4	443.1
37.5°	414.2	415.2	415.8	415.2
40°	389.5	392.4	392.8	393.4
42.5°	363.2	367.1	368.4	369.0
45°	331.6	335.2	338.1	337.5
47.5°	299.4	302.0	304.6	302.7
50°	268.6	270.2	271.2	271.2
52.5°	239.3	239.3	239.0	239.3
55°	205.8	205.8	204.5	205.2
57.5°	170.7	171.3	170.4	168.7
60°	138.2	136.6	135.9	134.9
62.5°	107.6	107.6	105.3	108.3
65°	80.6	79.7	78.7	78.4
67.5°	58.5	58.2	57.2	56.9
70°	41.3	40.0	39.7	39.0
72.5°	27.6	27.6	27.0	27.0
75°	16.9	15.3	15.0	15.3
77.5°	11.7	11.4	11.4	11.1
80°	7.8	7.5	8.1	7.2
82.5°	4.9	5.2	4.9	5.2
85°	3.3	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)