

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: P246048

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246048
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 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1123.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

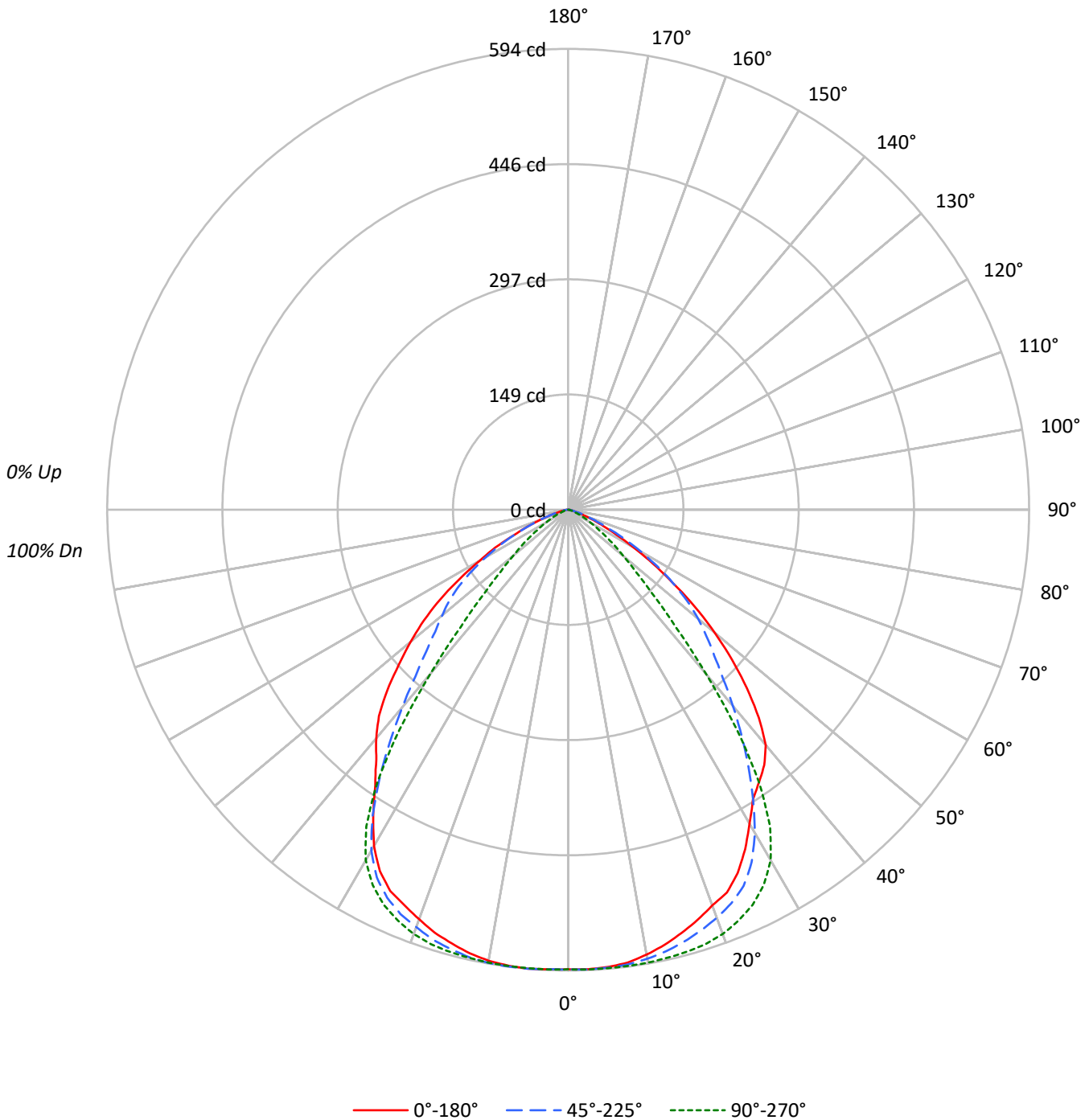
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	18271	18271	18271
5°	18312	18362	18381
10°	18233	18562	18483
15°	18031	18835	18478
20°	17815	19099	18432
25°	17584	19122	18451
30°	16635	18583	17825
35°	16138	16149	16319
40°	15941	11114	15490
45°	14203	6672	14395
50°	11811	4442	12727
55°	8855	3059	10790
60°	6001	2041	8141
65°	3619	1321	5589
70°	2011	721	3444
75°	905	298	1775
80°	799	337	1243
85°	885	460	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	5.0
10°-20°	164.2	14.6
20°-30°	249.3	22.2
30°-40°	261.8	23.3
40°-50°	196.3	17.5
50°-60°	125.9	11.2
60°-70°	53.9	4.8
70°-80°	12.7	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°	470.0	41.9
0°-40°	731.8	65.2
0°-60°	1054.0	93.9
0°-90°	1123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	592	592	592	592	592	
5°	592	592	593	594	594	56
15°	565	577	590	586	579	159
25°	517	535	562	552	542	236
35°	429	405	429	424	434	269
45°	326	266	153	259	330	249
55°	165	165	57	172	201	149
65°	50	58	18	75	77	53
75°	8	9	2	15	15	11
85°	2	2	1	2	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°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5
2.5°	592.8	593.5	593.2	593.2	592.8	593.2	593.2	593.8	593.8	593.2	592.8
5°	591.6	592.2	592.2	591.6	591.6	593.2	592.2	592.8	592.8	592.5	592.5
7.5°	588.7	588.7	590.0	589.0	589.0	590.0	589.7	590.3	590.9	591.2	591.2
10°	582.3	583.0	583.3	583.3	583.6	584.6	585.2	586.5	587.1	587.7	588.1
12.5°	574.4	575.3	575.7	575.3	576.3	577.6	579.2	580.8	581.7	583.0	583.9
15°	564.8	564.8	565.5	566.4	567.1	569.0	570.6	572.5	575.0	576.6	578.2
17.5°	554.4	555.0	555.9	555.9	557.2	560.4	561.3	564.2	567.1	568.7	571.8
20°	542.9	543.5	544.5	545.1	546.7	549.3	551.2	553.7	556.9	559.8	562.9
22.5°	534.0	532.7	533.4	534.0	535.6	537.8	540.0	543.2	546.4	549.3	552.4
25°	516.8	517.1	518.1	518.7	520.6	522.5	525.1	528.9	531.8	535.0	538.4
27.5°	493.6	493.9	495.5	495.5	497.1	500.3	501.9	505.1	508.9	512.1	516.2
30°	467.2	467.8	467.8	469.1	470.1	471.7	473.2	476.4	478.3	481.2	486.9
32.5°	443.0	443.7	443.4	443.0	442.1	441.8	441.4	442.1	442.7	443.7	445.9
35°	428.7	427.1	425.9	423.6	421.1	417.9	415.0	411.2	407.7	404.9	401.7
37.5°	415.0	414.7	412.8	409.6	404.5	398.8	392.2	383.9	375.6	366.7	358.1
40°	396.0	395.0	393.4	389.0	383.2	376.2	367.3	357.2	343.8	330.1	316.1
42.5°	363.5	363.8	361.9	358.4	353.0	346.3	337.1	326.0	311.7	295.5	277.3
45°	325.7	325.7	325.0	322.2	318.4	313.0	306.0	296.7	282.7	266.2	246.8
47.5°	286.2	286.6	285.6	285.0	283.4	279.9	274.8	267.8	257.9	242.0	222.6
50°	246.2	246.2	247.8	247.4	247.4	246.2	243.9	239.8	231.2	218.5	200.4
52.5°	206.1	206.7	207.7	209.0	210.5	213.1	210.5	208.6	203.2	193.4	177.8
55°	164.7	165.4	167.0	169.2	171.1	173.7	174.3	174.3	171.4	164.7	153.0
57.5°	129.4	128.5	129.8	131.7	134.2	136.8	138.7	140.9	140.6	136.1	126.6
60°	97.3	97.6	98.6	100.5	102.4	104.6	107.2	109.1	110.0	107.8	101.8
62.5°	70.9	70.9	72.2	74.1	75.1	78.2	79.8	80.8	81.7	81.4	77.6
65°	49.6	50.2	50.9	51.8	52.8	54.7	55.7	57.6	58.2	58.5	55.7
67.5°	35.0	34.0	34.7	35.3	36.3	37.5	39.4	39.4	40.4	40.4	38.5
70°	22.3	22.3	22.6	23.5	24.2	24.5	25.1	25.8	26.7	26.4	26.4
72.5°	14.9	14.6	14.9	15.3	15.6	16.5	16.5	16.9	17.5	17.8	16.5
75°	7.6	8.0	8.6	8.3	9.2	8.6	8.9	9.9	9.5	8.9	8.9
77.5°	6.4	6.4	6.4	6.0	6.7	6.7	6.4	7.0	6.7	6.7	6.4
80°	4.5	4.8	4.5	4.1	4.5	4.1	4.1	4.1	4.1	4.1	3.8
82.5°	3.5	2.9	3.2	2.9	3.2	3.2	2.9	2.5	2.5	2.9	2.5
85°	2.5	1.9	2.2	2.2	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°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5
2.5°	593.5	593.2	593.8	593.5	593.5	593.2	593.5	593.2	593.8	592.5	592.8
5°	593.5	592.8	593.2	593.5	593.8	593.2	593.2	593.2	593.8	593.2	593.5
7.5°	592.2	591.9	592.8	593.5	593.2	592.8	593.5	593.2	593.8	593.5	594.1
10°	589.7	590.0	590.6	591.6	591.9	592.2	592.8	592.8	593.8	592.5	593.2
12.5°	585.8	587.1	588.7	589.3	590.6	590.6	591.2	591.6	592.2	591.9	592.8
15°	581.1	582.7	584.6	586.2	587.7	588.7	589.7	590.0	590.9	590.0	590.3
17.5°	575.3	577.2	580.1	582.0	584.6	585.5	586.8	587.4	588.4	587.7	588.1
20°	567.4	569.6	572.8	575.7	577.2	579.5	581.1	582.0	582.7	582.0	582.3
22.5°	556.3	559.4	563.6	565.8	569.0	570.9	571.2	573.4	575.0	573.4	574.1
25°	543.2	546.4	549.6	554.4	557.2	559.4	561.7	562.0	563.6	563.3	562.9
27.5°	521.6	525.7	531.1	535.0	538.8	542.3	544.8	545.4	547.0	546.4	546.7
30°	492.0	496.5	501.6	507.6	513.0	516.5	519.7	521.9	523.5	522.5	522.2
32.5°	450.0	454.5	459.9	465.9	472.3	477.4	481.2	484.1	486.0	485.3	483.7
35°	402.0	403.3	406.8	411.6	417.0	422.4	425.9	429.0	431.3	431.9	431.9
37.5°	352.7	348.6	346.0	346.0	349.2	351.4	354.6	356.5	360.0	361.3	362.3
40°	305.0	295.5	286.6	279.9	275.4	275.1	275.1	276.1	279.2	283.4	287.2
42.5°	262.4	247.1	233.4	221.0	212.1	207.0	204.8	205.1	207.7	211.5	217.9
45°	228.4	209.3	192.1	177.2	165.1	157.1	153.3	153.0	154.9	159.3	166.3
47.5°	202.0	181.6	162.2	145.0	132.0	123.4	118.9	117.7	118.9	123.1	131.4
50°	180.0	159.0	139.0	121.2	107.2	98.3	94.1	92.6	94.1	97.6	105.9
52.5°	159.7	138.0	119.3	102.1	87.1	79.5	75.1	74.1	75.1	79.2	85.9
55°	136.1	117.7	99.2	82.1	69.0	61.4	57.9	56.9	57.9	61.7	68.7
57.5°	112.9	97.0	80.8	65.2	54.1	47.4	44.2	42.9	45.2	47.7	56.0
60°	91.3	78.6	64.9	51.2	42.0	35.9	33.4	33.1	33.7	36.9	42.6
62.5°	71.6	61.1	50.2	39.1	31.5	28.9	25.8	25.4	26.1	28.0	32.4
65°	51.5	44.8	36.6	28.6	22.6	19.1	17.8	18.1	18.8	20.0	24.2
67.5°	35.9	31.2	25.4	20.0	15.6	14.0	12.7	12.4	12.7	14.9	17.2
70°	24.2	21.3	17.2	15.3	10.8	8.6	8.9	8.0	9.2	9.2	11.1
72.5°	15.9	14.0	11.4	8.9	7.6	6.0	6.0	5.7	6.4	6.7	8.3
75°	8.3	6.4	6.4	4.5	3.2	1.6	2.9	2.5	2.2	2.5	3.2
77.5°	5.7	4.8	4.5	3.5	3.2	2.5	2.5	2.5	2.5	2.9	3.2
80°	3.5	3.5	2.5	2.2	1.9	1.6	1.9	1.9	1.9	1.9	2.2
82.5°	2.2	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	2.2	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°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5
2.5°	593.5	593.8	593.8	593.5	593.5	592.8	594.1	593.2	593.5	594.7	593.8
5°	594.1	594.4	594.4	594.1	594.1	594.1	594.4	594.4	594.1	593.8	594.4
7.5°	595.4	595.1	595.1	594.4	594.4	593.8	594.4	593.5	594.1	593.5	594.4
10°	593.8	594.1	593.8	593.5	593.5	593.2	593.2	592.2	592.5	591.6	592.2
12.5°	592.8	592.5	592.5	591.9	591.2	590.6	590.3	589.3	589.3	587.1	588.1
15°	590.3	590.6	589.7	588.4	587.7	586.2	585.5	584.2	583.0	581.4	581.7
17.5°	588.1	587.1	585.8	584.6	582.0	580.8	579.5	577.6	576.9	575.0	574.4
20°	581.4	580.8	579.2	576.9	575.3	572.5	571.2	569.3	567.7	565.8	564.8
22.5°	572.8	572.2	570.3	568.0	565.5	564.2	562.9	559.4	557.8	555.9	555.6
25°	562.0	561.0	559.1	556.6	555.3	551.8	550.5	548.0	547.4	545.4	545.1
27.5°	545.4	544.2	541.9	538.8	536.5	534.3	533.0	531.1	530.5	528.6	528.3
30°	520.6	519.0	514.6	513.3	509.5	507.3	507.3	504.7	505.1	503.8	503.8
32.5°	481.5	479.0	475.5	472.9	470.4	469.1	469.1	468.2	468.8	468.8	469.4
35°	429.7	426.2	424.3	422.7	422.7	424.0	427.8	428.7	430.6	432.2	433.5
37.5°	363.2	362.9	365.1	367.0	371.8	377.2	383.9	389.6	395.0	398.8	402.6
40°	291.3	299.3	305.6	314.5	321.9	332.4	344.4	354.3	363.5	370.2	377.2
42.5°	227.4	237.6	250.9	264.0	277.0	291.3	307.2	320.9	333.0	342.2	349.5
45°	177.2	191.1	207.4	223.9	240.8	258.6	275.1	289.1	301.8	311.4	318.7
47.5°	142.8	158.1	176.5	194.6	213.7	232.5	250.9	263.0	273.5	281.1	287.8
50°	118.0	134.2	153.6	174.3	193.4	212.1	228.0	239.8	248.4	255.1	259.2
52.5°	98.6	115.8	136.4	157.1	176.2	193.4	207.7	216.6	223.6	228.4	232.2
55°	81.4	98.0	117.4	136.8	155.5	171.7	183.5	190.2	195.6	198.5	200.7
57.5°	66.5	81.7	99.5	117.4	133.6	146.9	156.2	162.8	165.4	167.6	167.3
60°	52.2	66.5	82.7	98.0	112.0	122.8	129.4	133.3	135.2	136.1	135.5
62.5°	41.0	54.1	66.5	79.8	90.0	99.2	105.6	105.6	106.5	106.9	107.8
65°	30.5	40.4	51.2	61.1	69.3	75.4	78.9	79.8	81.1	80.8	80.1
67.5°	22.6	29.9	37.8	45.2	50.9	54.7	57.2	59.5	59.2	58.5	58.2
70°	15.6	20.4	27.4	31.8	35.9	39.8	40.4	40.7	41.0	41.3	40.7
72.5°	10.8	14.3	18.1	21.9	24.5	26.1	27.7	28.0	28.0	28.0	27.7
75°	5.4	7.3	10.8	12.4	14.6	15.3	16.5	16.5	17.5	16.2	15.9
77.5°	4.8	5.7	7.6	8.9	9.9	10.8	11.1	12.1	11.8	11.1	11.4
80°	2.9	3.5	4.8	5.4	6.7	7.0	7.3	7.6	7.3	7.6	7.6
82.5°	2.2	2.5	3.2	3.2	4.1	4.1	4.5	4.5	4.8	4.8	4.8
85°	1.3	2.2	1.9	3.8	2.5	2.5	3.2	3.8	3.2	3.2	3.8
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	1.9	1.9	2.2	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°	592.5	592.5	592.5	592.5
2.5°	593.5	594.1	593.2	592.8
5°	594.4	594.4	593.8	593.8
7.5°	594.4	594.4	593.5	592.8
10°	591.9	591.9	590.9	590.3
12.5°	587.1	587.1	586.8	585.8
15°	581.1	581.1	579.8	578.8
17.5°	572.8	573.4	571.8	571.8
20°	563.9	563.6	562.3	561.7
22.5°	554.7	554.0	553.7	551.8
25°	544.8	544.2	543.2	542.3
27.5°	528.0	527.6	526.7	525.4
30°	502.2	501.9	500.6	500.6
32.5°	468.8	468.5	467.2	467.5
35°	434.1	435.4	434.8	433.5
37.5°	405.2	406.1	406.8	406.1
40°	381.0	383.9	384.2	384.8
42.5°	355.3	359.1	360.3	361.0
45°	324.4	327.9	330.8	330.1
47.5°	292.9	295.5	298.0	296.1
50°	262.7	264.3	265.3	265.3
52.5°	234.1	234.1	233.8	234.1
55°	201.3	201.3	200.1	200.7
57.5°	167.0	167.6	166.7	165.1
60°	135.2	133.6	132.9	132.0
62.5°	105.3	105.3	103.0	105.9
65°	78.9	77.9	77.0	76.6
67.5°	57.2	56.9	56.0	55.7
70°	40.4	39.1	38.8	38.2
72.5°	27.0	27.0	26.4	26.4
75°	16.5	14.9	14.6	14.9
77.5°	11.4	11.1	11.1	10.8
80°	7.6	7.3	8.0	7.0
82.5°	4.8	5.1	4.8	5.1
85°	3.2	3.8	3.5	3.5
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)