

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: P244578

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B109727 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 794.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

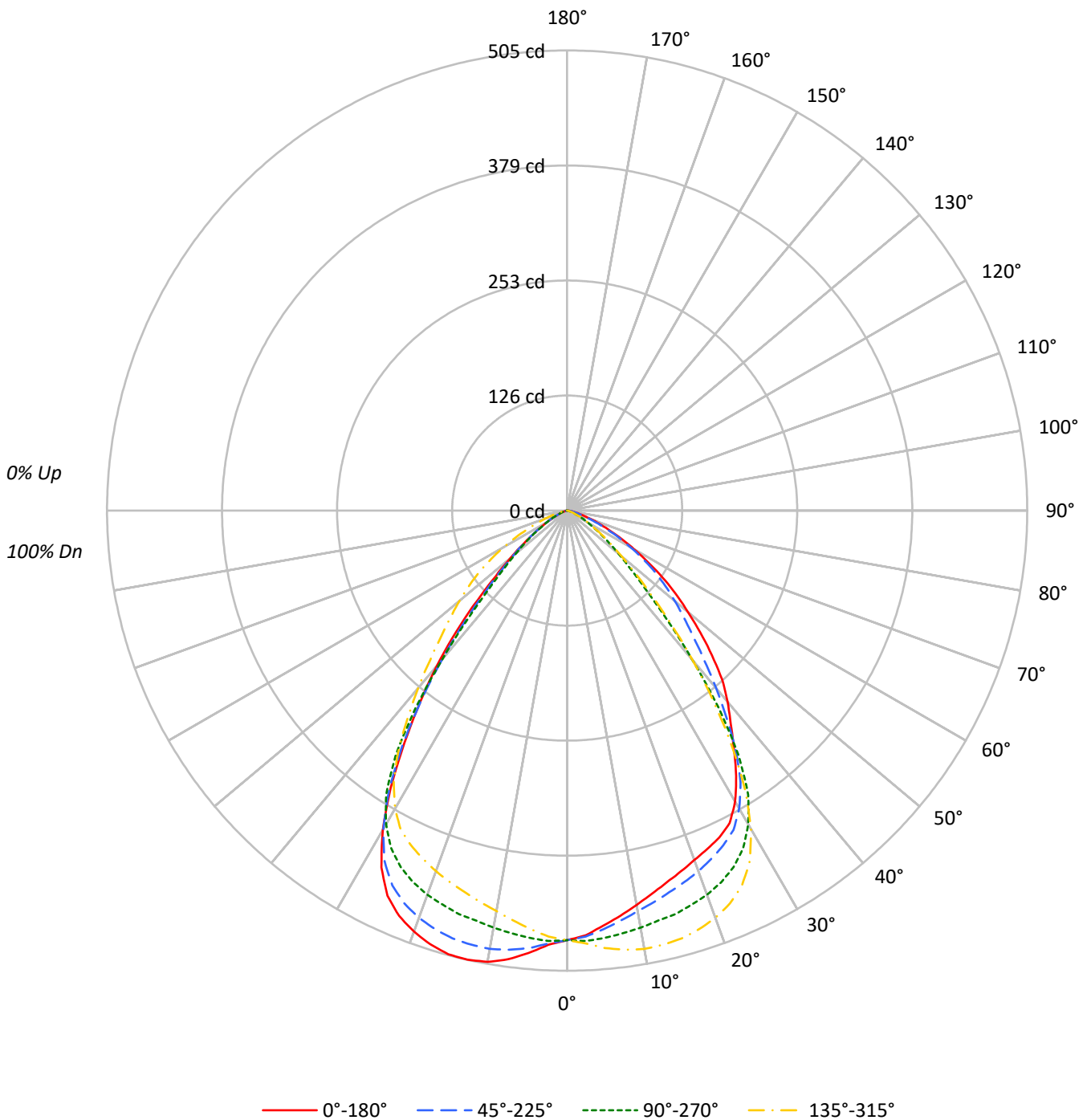
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14536	14536	14536	14536
5°	14149	14570	15090	14570
10°	13758	14551	15747	14551
15°	13482	14637	16093	14637
20°	13392	14721	16132	14721
25°	13460	14692	15872	14692
30°	13128	14154	14406	14154
35°	12008	12347	11715	12347
40°	11026	8590	8969	8590
45°	9795	5237	6062	5237
50°	8290	3502	3886	3502
55°	6865	2387	2527	2387
60°	5236	1591	1603	1591
65°	3714	992	905	992
70°	2678	667	604	667
75°	1704	334	274	334
80°	1190	249	195	249
85°	1061	0	71	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	5.7
10°-20°	129.9	16.4
20°-30°	196.7	24.8
30°-40°	197.2	24.8
40°-50°	123.8	15.6
50°-60°	66.0	8.3
60°-70°	27.1	3.4
70°-80°	7.2	0.9
80°-90°	1.2	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°	371.5	46.8
0°-40°	568.7	71.6
0°-60°	758.5	95.5
0°-90°	794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	794.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	471	471	471	471	471	
5°	457	471	488	471	457	43
15°	422	458	504	458	422	119
25°	396	432	466	432	396	181
35°	319	328	311	328	319	200
45°	225	120	139	120	225	173
55°	128	44	47	44	128	114
65°	51	14	12	14	51	53
75°	14	3	2	3	14	16
85°	3	0	0	0	3	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°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	466.5	466.1	465.8	466.3	466.5	467.5	467.2	467.7	467.7	467.9	468.4
5°	457.1	456.9	457.1	457.1	458.0	458.9	458.7	459.4	459.9	461.0	461.5
7.5°	448.4	448.4	448.1	449.0	449.5	450.9	450.7	451.8	452.5	453.6	455.3
10°	439.4	439.4	439.6	440.3	440.5	442.6	442.6	444.2	445.1	446.3	448.4
12.5°	430.6	430.6	432.0	431.6	432.5	434.1	434.8	436.4	437.8	440.1	442.1
15°	422.3	422.3	422.8	424.0	424.6	426.7	427.9	429.7	431.3	433.6	436.6
17.5°	415.2	415.0	415.2	416.6	418.0	419.8	420.7	423.0	424.6	427.6	430.4
20°	408.1	408.5	408.5	409.7	410.6	412.9	413.8	416.4	418.2	421.0	424.2
22.5°	401.9	401.6	401.6	403.2	403.9	406.0	406.9	409.2	411.3	413.6	416.6
25°	395.6	395.2	396.1	396.3	396.8	399.1	399.8	401.4	403.5	405.5	408.5
27.5°	386.4	386.0	386.2	387.1	387.8	389.7	390.1	391.7	393.3	395.2	397.7
30°	368.7	368.3	368.0	369.6	370.3	371.7	372.4	375.2	375.6	377.7	379.5
32.5°	345.2	345.0	345.5	346.9	347.5	349.4	350.3	351.9	353.1	354.2	356.1
35°	319.0	318.5	319.0	320.4	320.4	322.0	322.7	323.4	323.1	323.4	322.9
37.5°	294.6	294.4	294.6	295.3	294.6	295.3	294.6	293.2	290.7	287.9	285.2
40°	273.9	274.1	272.7	273.7	271.1	270.7	268.1	264.7	259.6	254.1	246.3
42.5°	251.8	251.1	250.2	250.6	248.6	247.0	242.8	238.5	232.0	222.8	213.4
45°	224.6	224.4	223.9	223.7	222.3	220.7	217.3	212.2	205.1	195.6	184.4
47.5°	198.2	197.5	197.5	197.7	196.1	195.9	193.1	188.7	182.5	173.3	161.6
50°	172.8	172.6	173.1	174.0	172.8	172.4	170.6	167.6	162.0	154.2	143.2
52.5°	150.1	149.8	150.3	151.4	151.0	151.4	149.6	147.3	143.6	136.0	126.4
55°	127.7	127.7	127.7	129.1	129.1	129.1	128.2	126.8	123.4	117.8	108.9
57.5°	104.5	104.7	106.1	106.3	106.1	106.6	106.3	104.9	102.7	98.7	91.8
60°	84.9	84.9	85.6	86.3	86.1	86.3	86.3	85.6	83.3	80.1	74.6
62.5°	67.2	67.9	67.4	67.9	68.8	67.9	67.4	67.0	65.4	63.3	58.7
65°	50.9	51.3	51.3	51.6	51.1	51.3	50.4	49.7	48.8	46.5	43.5
67.5°	38.7	38.7	38.7	38.7	38.4	38.2	38.0	37.3	35.7	34.8	31.5
70°	29.7	28.3	28.3	28.3	28.3	28.5	27.9	26.9	26.5	24.9	22.6
72.5°	19.8	20.3	19.8	19.8	19.3	19.6	18.6	18.2	17.7	16.8	15.4
75°	14.3	13.1	13.6	13.8	13.1	13.6	12.7	11.7	11.7	11.0	10.4
77.5°	9.2	9.0	9.2	9.4	9.2	9.0	8.5	8.1	8.1	7.8	7.1
80°	6.7	6.4	6.4	6.4	6.2	6.4	6.0	6.0	5.5	5.3	4.8
82.5°	4.4	4.4	4.1	4.4	4.1	4.4	3.7	3.7	3.7	3.4	3.0
85°	3.0	2.5	2.5	2.8	2.3	2.8	2.5	2.3	2.1	2.1	1.8
87.5°	1.4	1.6	1.4	1.6	1.4	1.4	1.6	1.4	1.4	0.9	0.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	469.1	469.3	469.3	470.2	470.7	470.9	470.9	472.8	472.1	472.5	473.0
5°	462.4	463.8	464.2	464.2	466.8	467.7	468.6	470.7	470.9	472.3	473.9
7.5°	455.9	457.6	458.5	460.6	462.2	463.8	466.5	467.9	469.3	471.1	473.2
10°	449.7	451.6	453.4	455.0	457.6	459.6	461.5	464.7	466.3	468.8	471.6
12.5°	443.8	446.3	447.9	450.7	453.4	455.3	458.0	461.0	463.5	466.1	469.3
15°	438.5	441.5	443.3	446.3	449.3	451.8	454.8	458.5	460.3	463.3	466.3
17.5°	432.7	435.9	438.2	441.0	444.7	447.4	450.0	453.6	455.9	459.2	462.6
20°	426.7	429.9	432.7	435.5	439.2	441.9	444.9	448.6	451.1	454.3	457.1
22.5°	419.6	422.6	425.6	428.8	432.5	434.8	438.2	441.5	444.2	447.2	450.0
25°	410.4	414.1	416.4	419.4	422.3	424.9	428.6	431.8	434.1	436.9	439.4
27.5°	399.6	402.3	404.2	406.7	409.7	412.0	414.7	418.0	420.3	422.8	424.6
30°	381.1	383.7	385.3	387.1	390.1	392.2	394.5	397.5	399.1	400.9	402.6
32.5°	357.0	359.1	360.0	361.4	363.4	365.5	367.3	369.9	370.6	371.7	371.7
35°	322.0	322.5	322.2	322.7	323.6	324.8	326.4	328.0	328.9	328.9	328.2
37.5°	281.0	278.3	275.3	273.0	272.3	271.8	272.7	273.4	274.4	274.8	273.7
40°	238.5	232.2	225.6	219.6	215.4	213.6	212.9	213.4	213.4	215.0	215.0
42.5°	201.9	192.2	182.3	173.3	167.3	162.7	160.7	160.7	160.9	162.0	162.7
45°	171.5	159.3	147.8	137.9	129.6	123.6	120.8	120.1	119.9	120.4	122.0
47.5°	148.2	135.6	123.6	111.4	102.7	96.7	94.1	93.2	92.3	93.2	93.4
50°	130.0	116.9	104.3	92.1	82.9	77.6	74.3	73.0	72.7	72.7	73.2
52.5°	113.5	101.3	88.6	76.2	66.5	61.5	58.5	57.8	56.9	57.8	57.8
55°	97.8	85.6	73.2	61.5	53.4	48.1	45.3	44.4	44.0	44.6	44.6
57.5°	80.8	70.4	58.9	48.3	40.3	36.6	34.5	33.4	33.1	33.6	33.1
60°	66.3	57.5	47.6	38.0	31.8	27.9	26.2	25.8	25.3	25.8	25.8
62.5°	52.5	45.1	37.1	29.7	24.4	21.6	19.8	19.8	19.6	19.6	19.8
65°	38.9	33.1	27.4	21.2	17.0	15.0	13.6	13.6	13.3	13.6	13.3
67.5°	28.3	24.4	19.8	15.4	12.2	11.0	10.1	9.4	9.9	9.4	9.2
70°	20.7	17.5	14.3	11.7	9.4	8.3	7.6	7.4	6.9	6.9	6.9
72.5°	13.8	11.7	9.7	7.6	6.2	5.1	4.8	4.4	3.9	4.1	4.6
75°	9.2	7.8	6.9	5.5	4.1	4.1	2.8	2.8	2.3	2.8	2.1
77.5°	6.4	5.3	4.1	3.4	2.8	2.5	1.8	1.8	1.6	1.6	1.6
80°	4.6	3.9	3.0	2.5	1.8	1.8	1.6	1.4	1.1	1.1	1.4
82.5°	2.8	2.1	2.1	1.8	1.1	0.9	0.7	0.9	0.5	0.5	0.5
85°	1.6	1.4	1.1	0.7	0.5	0.5	0.2	0.0	0.2	0.2	0.0
87.5°	0.9	0.5	0.5	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.5
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°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	474.1	473.9	474.4	474.4	475.7	475.5	476.2	476.2	475.7	476.0	476.9
5°	475.7	476.4	477.8	479.0	481.0	482.0	483.1	484.3	484.5	485.2	485.9
7.5°	475.7	478.1	479.7	481.7	484.5	486.1	488.6	490.7	491.6	492.8	494.2
10°	474.8	477.1	480.1	482.4	485.9	488.4	490.9	494.2	495.5	497.4	499.2
12.5°	473.0	475.5	478.7	481.7	485.6	487.9	491.2	494.2	496.2	498.8	500.8
15°	470.2	473.2	476.2	479.2	483.3	486.1	489.1	492.5	494.6	497.4	499.2
17.5°	465.8	469.1	471.8	474.6	478.5	481.7	484.5	487.7	489.8	492.1	494.6
20°	460.6	463.5	466.5	468.8	472.8	475.5	478.5	481.5	483.1	483.6	487.5
22.5°	453.9	455.9	458.3	461.9	464.2	466.8	469.5	472.3	473.9	476.4	477.8
25°	442.8	444.9	447.4	449.0	451.8	453.9	456.6	459.6	460.6	462.4	463.8
27.5°	427.4	428.6	429.7	431.1	432.7	433.9	435.5	436.9	437.8	438.7	439.6
30°	403.0	403.0	403.0	402.1	402.8	403.5	403.7	403.5	403.5	403.2	403.2
32.5°	370.8	369.0	366.9	365.0	364.3	363.4	363.0	362.3	361.1	360.4	360.7
35°	327.3	323.1	320.6	318.3	316.5	315.1	314.4	313.7	313.5	312.6	311.6
37.5°	273.0	270.0	268.1	266.8	265.1	263.8	264.0	264.2	264.9	264.5	264.7
40°	215.4	214.7	215.4	213.8	213.4	213.8	215.0	216.6	217.5	218.4	220.0
42.5°	163.9	165.0	166.6	166.6	167.3	168.3	169.6	172.2	173.5	175.1	177.0
45°	123.4	124.7	126.8	127.5	128.0	129.1	130.7	132.8	133.7	135.1	136.7
47.5°	95.1	96.0	97.1	98.3	99.4	99.9	101.5	101.5	102.7	103.6	104.0
50°	74.1	75.0	76.0	76.6	77.1	77.8	78.3	78.9	79.2	79.6	79.9
52.5°	58.0	59.2	59.2	59.6	60.3	61.0	60.8	61.0	61.2	61.2	61.9
55°	45.3	45.3	46.0	46.0	46.5	46.3	46.5	46.5	46.5	46.5	46.7
57.5°	33.8	34.1	34.8	34.3	34.1	34.5	34.1	34.5	34.3	34.8	34.1
60°	26.0	26.0	26.2	26.2	26.5	26.5	26.5	26.2	26.2	26.0	26.0
62.5°	19.6	19.8	20.0	19.8	19.8	19.8	19.6	19.6	19.3	19.1	19.1
65°	13.1	12.9	13.3	12.9	13.1	13.1	12.9	13.1	12.4	12.7	12.4
67.5°	9.4	9.2	9.0	9.2	9.0	8.7	8.7	9.0	9.2	8.5	8.5
70°	6.2	6.4	6.2	6.4	6.7	6.7	6.4	6.2	6.4	6.0	6.2
72.5°	3.9	3.9	3.9	3.9	3.9	4.1	4.1	4.1	3.7	3.7	3.4
75°	1.8	2.5	2.1	1.8	2.5	2.5	2.3	2.3	2.1	2.1	2.1
77.5°	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.1	1.4	1.1
80°	0.9	0.9	0.9	0.7	0.9	0.9	1.1	0.9	0.9	0.7	1.1
82.5°	0.5	0.5	0.5	0.0	0.2	0.5	0.5	0.2	0.5	0.5	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	476.7	476.4	476.7	476.9	476.7	476.4	476.7	476.9	476.0	475.7	476.2
5°	486.8	486.8	487.3	487.5	487.3	486.8	486.8	485.9	485.2	484.5	484.3
7.5°	495.5	496.0	496.5	496.7	496.5	496.0	495.5	494.2	492.8	491.6	490.7
10°	500.8	501.5	502.4	502.9	502.4	501.5	500.8	499.2	497.4	495.5	494.2
12.5°	503.1	503.8	505.0	504.7	505.0	503.8	503.1	500.8	498.8	496.2	494.2
15°	501.5	502.4	503.6	504.1	503.6	502.4	501.5	499.2	497.4	494.6	492.5
17.5°	496.5	497.8	498.5	499.2	498.5	497.8	496.5	494.6	492.1	489.8	487.7
20°	489.6	490.5	491.4	491.6	491.4	490.5	489.6	487.5	483.6	483.1	481.5
22.5°	479.7	480.4	482.4	481.7	482.4	480.4	479.7	477.8	476.4	473.9	472.3
25°	465.4	466.1	466.3	466.5	466.3	466.1	465.4	463.8	462.4	460.6	459.6
27.5°	440.8	440.8	441.2	441.5	441.2	440.8	440.8	439.6	438.7	437.8	436.9
30°	403.5	403.5	403.5	404.6	403.5	403.5	403.5	403.2	403.2	403.5	403.5
32.5°	360.4	360.0	359.5	360.0	359.5	360.0	360.4	360.7	360.4	361.1	362.3
35°	311.6	311.4	312.1	311.2	312.1	311.4	311.6	311.6	312.6	313.5	313.7
37.5°	264.9	264.5	265.4	264.5	265.4	264.5	264.9	264.7	264.5	264.9	264.2
40°	220.5	221.0	221.0	222.8	221.0	221.0	220.5	220.0	218.4	217.5	216.6
42.5°	177.9	179.3	178.8	180.2	178.8	179.3	177.9	177.0	175.1	173.5	172.2
45°	137.6	138.6	138.6	139.0	138.6	138.6	137.6	136.7	135.1	133.7	132.8
47.5°	105.6	105.6	105.6	105.9	105.6	105.6	105.6	104.0	103.6	102.7	101.5
50°	80.3	80.6	80.8	81.0	80.8	80.6	80.3	79.9	79.6	79.2	78.9
52.5°	61.7	61.9	61.5	61.9	61.5	61.9	61.7	61.9	61.2	61.2	61.0
55°	46.7	46.5	46.7	47.0	46.7	46.5	46.7	46.7	46.5	46.5	46.5
57.5°	34.3	33.8	33.8	33.8	33.8	33.8	34.3	34.1	34.8	34.3	34.5
60°	25.6	25.8	25.8	26.0	25.8	25.8	25.6	26.0	26.0	26.2	26.2
62.5°	18.9	19.6	19.1	19.6	19.1	19.6	18.9	19.1	19.1	19.3	19.6
65°	12.2	12.2	12.2	12.4	12.2	12.2	12.2	12.4	12.7	12.4	13.1
67.5°	8.3	8.5	9.0	8.7	9.0	8.5	8.3	8.5	8.5	9.2	9.0
70°	6.7	6.0	6.0	6.7	6.0	6.0	6.7	6.2	6.0	6.4	6.2
72.5°	3.9	3.4	3.9	3.9	3.9	3.4	3.9	3.4	3.7	3.7	4.1
75°	2.1	1.8	1.6	2.3	1.6	1.8	2.1	2.1	2.1	2.1	2.3
77.5°	1.4	1.1	1.6	1.6	1.6	1.1	1.4	1.1	1.4	1.1	1.4
80°	0.7	0.9	0.7	1.1	0.7	0.9	0.7	1.1	0.7	0.9	0.9
82.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.5	0.5	0.2
85°	0.0	0.5	0.2	0.2	0.2	0.5	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	476.2	475.5	475.7	474.4	474.4	473.9	474.1	473.0	472.5	472.1	472.8
5°	483.1	482.0	481.0	479.0	477.8	476.4	475.7	473.9	472.3	470.9	470.7
7.5°	488.6	486.1	484.5	481.7	479.7	478.1	475.7	473.2	471.1	469.3	467.9
10°	490.9	488.4	485.9	482.4	480.1	477.1	474.8	471.6	468.8	466.3	464.7
12.5°	491.2	487.9	485.6	481.7	478.7	475.5	473.0	469.3	466.1	463.5	461.0
15°	489.1	486.1	483.3	479.2	476.2	473.2	470.2	466.3	463.3	460.3	458.5
17.5°	484.5	481.7	478.5	474.6	471.8	469.1	465.8	462.6	459.2	455.9	453.6
20°	478.5	475.5	472.8	468.8	466.5	463.5	460.6	457.1	454.3	451.1	448.6
22.5°	469.5	466.8	464.2	461.9	458.3	455.9	453.9	450.0	447.2	444.2	441.5
25°	456.6	453.9	451.8	449.0	447.4	444.9	442.8	439.4	436.9	434.1	431.8
27.5°	435.5	433.9	432.7	431.1	429.7	428.6	427.4	424.6	422.8	420.3	418.0
30°	403.7	403.5	402.8	402.1	403.0	403.0	403.0	402.6	400.9	399.1	397.5
32.5°	363.0	363.4	364.3	365.0	366.9	369.0	370.8	371.7	371.7	370.6	369.9
35°	314.4	315.1	316.5	318.3	320.6	323.1	327.3	328.2	328.9	328.9	328.0
37.5°	264.0	263.8	265.1	266.8	268.1	270.0	273.0	273.7	274.8	274.4	273.4
40°	215.0	213.8	213.4	213.8	215.4	214.7	215.4	215.0	215.0	213.4	213.4
42.5°	169.6	168.3	167.3	166.6	166.6	165.0	163.9	162.7	162.0	160.9	160.7
45°	130.7	129.1	128.0	127.5	126.8	124.7	123.4	122.0	120.4	119.9	120.1
47.5°	101.5	99.9	99.4	98.3	97.1	96.0	95.1	93.4	93.2	92.3	93.2
50°	78.3	77.8	77.1	76.6	76.0	75.0	74.1	73.2	72.7	72.7	73.0
52.5°	60.8	61.0	60.3	59.6	59.2	59.2	58.0	57.8	57.8	56.9	57.8
55°	46.5	46.3	46.5	46.0	46.0	45.3	45.3	44.6	44.6	44.0	44.4
57.5°	34.1	34.5	34.1	34.3	34.8	34.1	33.8	33.1	33.6	33.1	33.4
60°	26.5	26.5	26.5	26.2	26.2	26.0	26.0	25.8	25.8	25.3	25.8
62.5°	19.6	19.8	19.8	19.8	20.0	19.8	19.6	19.8	19.6	19.6	19.8
65°	12.9	13.1	13.1	12.9	13.3	12.9	13.1	13.3	13.6	13.3	13.6
67.5°	8.7	8.7	9.0	9.2	9.0	9.2	9.4	9.2	9.4	9.9	9.4
70°	6.4	6.7	6.7	6.4	6.2	6.4	6.2	6.9	6.9	6.9	7.4
72.5°	4.1	4.1	3.9	3.9	3.9	3.9	3.9	4.6	4.1	3.9	4.4
75°	2.3	2.5	2.5	1.8	2.1	2.5	1.8	2.1	2.8	2.3	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.6	1.6	1.6	1.8
80°	1.1	0.9	0.9	0.7	0.9	0.9	0.9	1.4	1.1	1.1	1.4
82.5°	0.5	0.5	0.2	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	470.9	470.9	470.7	470.2	469.3	469.3	469.1	468.4	467.9	467.7	467.7
5°	468.6	467.7	466.8	464.2	464.2	463.8	462.4	461.5	461.0	459.9	459.4
7.5°	466.5	463.8	462.2	460.6	458.5	457.6	455.9	455.3	453.6	452.5	451.8
10°	461.5	459.6	457.6	455.0	453.4	451.6	449.7	448.4	446.3	445.1	444.2
12.5°	458.0	455.3	453.4	450.7	447.9	446.3	443.8	442.1	440.1	437.8	436.4
15°	454.8	451.8	449.3	446.3	443.3	441.5	438.5	436.6	433.6	431.3	429.7
17.5°	450.0	447.4	444.7	441.0	438.2	435.9	432.7	430.4	427.6	424.6	423.0
20°	444.9	441.9	439.2	435.5	432.7	429.9	426.7	424.2	421.0	418.2	416.4
22.5°	438.2	434.8	432.5	428.8	425.6	422.6	419.6	416.6	413.6	411.3	409.2
25°	428.6	424.9	422.3	419.4	416.4	414.1	410.4	408.5	405.5	403.5	401.4
27.5°	414.7	412.0	409.7	406.7	404.2	402.3	399.6	397.7	395.2	393.3	391.7
30°	394.5	392.2	390.1	387.1	385.3	383.7	381.1	379.5	377.7	375.6	375.2
32.5°	367.3	365.5	363.4	361.4	360.0	359.1	357.0	356.1	354.2	353.1	351.9
35°	326.4	324.8	323.6	322.7	322.2	322.5	322.0	322.9	323.4	323.1	323.4
37.5°	272.7	271.8	272.3	273.0	275.3	278.3	281.0	285.2	287.9	290.7	293.2
40°	212.9	213.6	215.4	219.6	225.6	232.2	238.5	246.3	254.1	259.6	264.7
42.5°	160.7	162.7	167.3	173.3	182.3	192.2	201.9	213.4	222.8	232.0	238.5
45°	120.8	123.6	129.6	137.9	147.8	159.3	171.5	184.4	195.6	205.1	212.2
47.5°	94.1	96.7	102.7	111.4	123.6	135.6	148.2	161.6	173.3	182.5	188.7
50°	74.3	77.6	82.9	92.1	104.3	116.9	130.0	143.2	154.2	162.0	167.6
52.5°	58.5	61.5	66.5	76.2	88.6	101.3	113.5	126.4	136.0	143.6	147.3
55°	45.3	48.1	53.4	61.5	73.2	85.6	97.8	108.9	117.8	123.4	126.8
57.5°	34.5	36.6	40.3	48.3	58.9	70.4	80.8	91.8	98.7	102.7	104.9
60°	26.2	27.9	31.8	38.0	47.6	57.5	66.3	74.6	80.1	83.3	85.6
62.5°	19.8	21.6	24.4	29.7	37.1	45.1	52.5	58.7	63.3	65.4	67.0
65°	13.6	15.0	17.0	21.2	27.4	33.1	38.9	43.5	46.5	48.8	49.7
67.5°	10.1	11.0	12.2	15.4	19.8	24.4	28.3	31.5	34.8	35.7	37.3
70°	7.6	8.3	9.4	11.7	14.3	17.5	20.7	22.6	24.9	26.5	26.9
72.5°	4.8	5.1	6.2	7.6	9.7	11.7	13.8	15.4	16.8	17.7	18.2
75°	2.8	4.1	4.1	5.5	6.9	7.8	9.2	10.4	11.0	11.7	11.7
77.5°	1.8	2.5	2.8	3.4	4.1	5.3	6.4	7.1	7.8	8.1	8.1
80°	1.6	1.8	1.8	2.5	3.0	3.9	4.6	4.8	5.3	5.5	6.0
82.5°	0.7	0.9	1.1	1.8	2.1	2.1	2.8	3.0	3.4	3.7	3.7
85°	0.2	0.5	0.5	0.7	1.1	1.4	1.6	1.8	2.1	2.1	2.3
87.5°	0.2	0.2	0.0	0.2	0.5	0.5	0.9	0.9	0.9	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P244578

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	467.2	467.5	466.5	466.3	465.8	466.1	466.5
5°	458.7	458.9	458.0	457.1	457.1	456.9	457.1
7.5°	450.7	450.9	449.5	449.0	448.1	448.4	448.4
10°	442.6	442.6	440.5	440.3	439.6	439.4	439.4
12.5°	434.8	434.1	432.5	431.6	432.0	430.6	430.6
15°	427.9	426.7	424.6	424.0	422.8	422.3	422.3
17.5°	420.7	419.8	418.0	416.6	415.2	415.0	415.2
20°	413.8	412.9	410.6	409.7	408.5	408.5	408.1
22.5°	406.9	406.0	403.9	403.2	401.6	401.6	401.9
25°	399.8	399.1	396.8	396.3	396.1	395.2	395.6
27.5°	390.1	389.7	387.8	387.1	386.2	386.0	386.4
30°	372.4	371.7	370.3	369.6	368.0	368.3	368.7
32.5°	350.3	349.4	347.5	346.9	345.5	345.0	345.2
35°	322.7	322.0	320.4	320.4	319.0	318.5	319.0
37.5°	294.6	295.3	294.6	295.3	294.6	294.4	294.6
40°	268.1	270.7	271.1	273.7	272.7	274.1	273.9
42.5°	242.8	247.0	248.6	250.6	250.2	251.1	251.8
45°	217.3	220.7	222.3	223.7	223.9	224.4	224.6
47.5°	193.1	195.9	196.1	197.7	197.5	197.5	198.2
50°	170.6	172.4	172.8	174.0	173.1	172.6	172.8
52.5°	149.6	151.4	151.0	151.4	150.3	149.8	150.1
55°	128.2	129.1	129.1	129.1	127.7	127.7	127.7
57.5°	106.3	106.6	106.1	106.3	106.1	104.7	104.5
60°	86.3	86.3	86.1	86.3	85.6	84.9	84.9
62.5°	67.4	67.9	68.8	67.9	67.4	67.9	67.2
65°	50.4	51.3	51.1	51.6	51.3	51.3	50.9
67.5°	38.0	38.2	38.4	38.7	38.7	38.7	38.7
70°	27.9	28.5	28.3	28.3	28.3	28.3	29.7
72.5°	18.6	19.6	19.3	19.8	19.8	20.3	19.8
75°	12.7	13.6	13.1	13.8	13.6	13.1	14.3
77.5°	8.5	9.0	9.2	9.4	9.2	9.0	9.2
80°	6.0	6.4	6.2	6.4	6.4	6.4	6.7
82.5°	3.7	4.4	4.1	4.4	4.1	4.4	4.4
85°	2.5	2.8	2.3	2.8	2.5	2.5	3.0
87.5°	1.6	1.4	1.4	1.6	1.4	1.6	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)