

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: P245894

Luminaire Tested: **LD8B20D010 ER8B20830 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245894
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: LD8B20D010 ER8B20830 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1612.0 lumens
Efficiency: N/A
Efficacy: 75.7 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

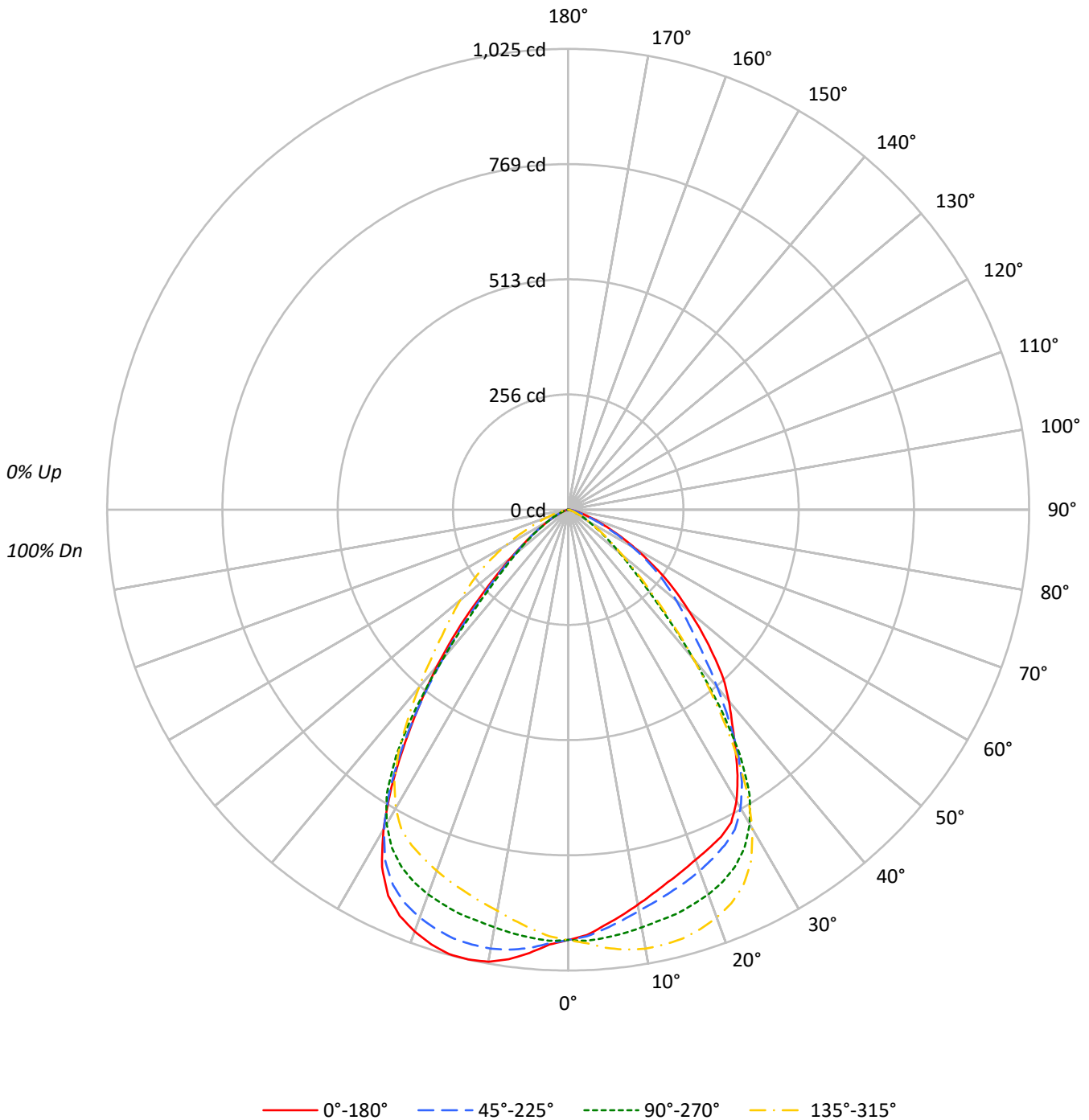
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29510	29510	29510	29510
5°	28725	29580	30635	29580
10°	27930	29540	31970	29540
15°	27375	29715	32668	29715
20°	27187	29885	32753	29885
25°	27332	29826	32228	29826
30°	26655	28735	29251	28735
35°	24382	25067	23784	25067
40°	22385	17438	18207	17438
45°	19890	10636	12306	10636
50°	16834	7105	7892	7105
55°	13940	4849	5123	4849
60°	10632	3225	3256	3225
65°	7537	2014	1839	2014
70°	5437	1343	1226	1343
75°	3455	667	560	667
80°	2415	497	408	497
85°	2158	0	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	5.7
10°-20°	263.8	16.4
20°-30°	399.4	24.8
30°-40°	400.3	24.8
40°-50°	251.4	15.6
50°-60°	134.0	8.3
60°-70°	55.1	3.4
70°-80°	14.5	0.9
80°-90°	2.5	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°	754.3	46.8
0°-40°	1154.6	71.6
0°-60°	1539.9	95.5
0°-90°	1612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	957	957	957	957	957	
5°	928	956	990	956	928	88
15°	858	931	1023	931	858	243
25°	803	877	947	877	803	368
35°	648	666	632	666	648	406
45°	456	244	282	244	456	351
55°	259	90	95	90	259	231
65°	103	28	25	28	103	107
75°	29	6	5	6	29	33
85°	6	0	0	0	6	7
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°	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0
2.5°	947.2	946.2	945.8	946.7	947.2	949.0	948.6	949.5	949.5	950.0	950.9
5°	928.0	927.5	928.0	928.0	929.9	931.8	931.3	932.7	933.6	936.0	936.9
7.5°	910.3	910.3	909.8	911.7	912.6	915.4	914.9	917.3	918.7	921.0	924.3
10°	892.0	892.0	892.5	893.9	894.4	898.6	898.6	901.9	903.7	906.1	910.3
12.5°	874.3	874.3	877.1	876.2	878.0	881.3	882.7	886.0	888.8	893.4	897.7
15°	857.5	857.5	858.4	860.7	862.1	866.3	868.7	872.4	875.7	880.4	886.4
17.5°	843.0	842.5	843.0	845.8	848.6	852.3	854.2	858.9	862.1	868.2	873.8
20°	828.5	829.4	829.4	831.8	833.6	838.3	840.2	845.3	849.1	854.7	861.2
22.5°	815.9	815.4	815.4	818.7	820.1	824.3	826.1	830.8	835.0	839.7	845.8
25°	803.3	802.3	804.2	804.7	805.6	810.3	811.7	814.9	819.1	823.4	829.4
27.5°	784.6	783.6	784.1	786.0	787.4	791.1	792.0	795.3	798.6	802.3	807.5
30°	748.6	747.7	747.2	750.5	751.9	754.7	756.1	761.7	762.6	766.8	770.5
32.5°	700.9	700.5	701.4	704.2	705.6	709.3	711.2	714.5	716.8	719.1	722.9
35°	647.7	646.7	647.7	650.5	650.5	653.7	655.1	656.5	656.1	656.5	655.6
37.5°	598.1	597.6	598.1	599.5	598.1	599.5	598.1	595.3	590.2	584.6	579.0
40°	556.1	556.5	553.7	555.6	550.5	549.5	544.4	537.4	527.1	515.9	500.0
42.5°	511.2	509.8	507.9	508.9	504.7	501.4	493.0	484.1	471.0	452.3	433.2
45°	456.1	455.6	454.7	454.2	451.4	448.1	441.1	430.8	416.4	397.2	374.3
47.5°	402.3	400.9	400.9	401.4	398.1	397.7	392.0	383.2	370.6	351.9	328.0
50°	350.9	350.5	351.4	353.3	350.9	350.0	346.3	340.2	329.0	313.1	290.6
52.5°	304.7	304.2	305.1	307.5	306.5	307.5	303.7	299.1	291.6	276.2	256.5
55°	259.3	259.3	259.3	262.1	262.1	262.1	260.3	257.5	250.5	239.2	221.0
57.5°	212.1	212.6	215.4	215.9	215.4	216.4	215.9	213.1	208.4	200.5	186.5
60°	172.4	172.4	173.8	175.2	174.8	175.2	175.2	173.8	169.2	162.6	151.4
62.5°	136.4	137.8	136.9	137.8	139.7	137.8	136.9	136.0	132.7	128.5	119.2
65°	103.3	104.2	104.2	104.7	103.7	104.2	102.3	100.9	99.1	94.4	88.3
67.5°	78.5	78.5	78.5	78.5	78.0	77.6	77.1	75.7	72.4	70.6	64.0
70°	60.3	57.5	57.5	57.5	57.5	58.0	56.5	54.7	53.7	50.5	45.8
72.5°	40.2	41.1	40.2	40.2	39.3	39.7	37.9	36.9	36.0	34.1	31.3
75°	29.0	26.6	27.6	28.0	26.6	27.6	25.7	23.8	23.8	22.4	21.0
77.5°	18.7	18.2	18.7	19.2	18.7	18.2	17.3	16.3	16.3	15.9	14.5
80°	13.6	13.1	13.1	13.1	12.6	13.1	12.2	12.2	11.2	10.8	9.8
82.5°	8.9	8.9	8.4	8.9	8.4	8.9	7.5	7.5	7.5	7.0	6.1
85°	6.1	5.1	5.1	5.6	4.7	5.6	5.1	4.7	4.2	4.2	3.7
87.5°	2.8	3.3	2.8	3.3	2.8	2.8	3.3	2.8	2.8	1.9	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0
2.5°	952.3	952.8	952.8	954.7	955.6	956.1	956.1	959.8	958.4	959.3	960.3
5°	938.8	941.6	942.5	942.5	947.6	949.5	951.4	955.6	956.1	958.9	962.1
7.5°	925.7	929.0	930.8	935.0	938.3	941.6	947.2	950.0	952.8	956.5	960.7
10°	913.1	916.8	920.5	923.8	929.0	933.2	936.9	943.4	946.7	951.9	957.5
12.5°	900.9	906.1	909.3	914.9	920.5	924.3	929.9	936.0	941.1	946.2	952.8
15°	890.2	896.3	900.0	906.1	912.1	917.3	923.4	930.8	934.6	940.6	946.7
17.5°	878.5	885.0	889.7	895.3	902.8	908.4	913.5	921.0	925.7	932.2	939.2
20°	866.3	872.9	878.5	884.1	891.6	897.2	903.3	910.7	915.9	922.4	928.0
22.5°	851.9	857.9	864.0	870.5	878.0	882.7	889.7	896.3	901.9	907.9	913.5
25°	833.2	840.6	845.3	851.4	857.5	862.6	870.1	876.6	881.3	886.9	892.0
27.5°	811.2	816.8	820.5	825.7	831.8	836.4	842.0	848.6	853.3	858.4	862.1
30°	773.8	779.0	782.2	786.0	792.0	796.3	800.9	807.0	810.3	814.0	817.3
32.5°	724.7	729.0	730.8	733.6	737.8	742.0	745.8	750.9	752.3	754.7	754.7
35°	653.7	654.7	654.2	655.1	657.0	659.3	662.6	665.9	667.7	667.7	666.4
37.5°	570.5	565.0	558.9	554.2	552.8	551.9	553.7	555.1	557.0	557.9	555.6
40°	484.1	471.5	457.9	445.8	437.4	433.6	432.2	433.2	433.2	436.4	436.4
42.5°	409.8	390.2	370.1	351.9	339.7	330.4	326.2	326.2	326.6	329.0	330.4
45°	348.1	323.4	300.0	279.9	263.1	250.9	245.3	243.9	243.5	244.4	247.7
47.5°	300.9	275.2	250.9	226.2	208.4	196.3	191.1	189.2	187.4	189.2	189.7
50°	264.0	237.4	211.7	186.9	168.2	157.5	150.9	148.1	147.7	147.7	148.6
52.5°	230.4	205.6	179.9	154.7	135.0	124.8	118.7	117.3	115.4	117.3	117.3
55°	198.6	173.8	148.6	124.8	108.4	97.7	92.1	90.2	89.2	90.6	90.6
57.5°	164.0	143.0	119.6	98.1	81.8	74.3	70.1	67.8	67.3	68.2	67.3
60°	134.6	116.8	96.7	77.1	64.5	56.5	53.3	52.3	51.4	52.3	52.3
62.5°	106.5	91.6	75.2	60.3	49.5	43.9	40.2	40.2	39.7	39.7	40.2
65°	79.0	67.3	55.6	43.0	34.6	30.4	27.6	27.6	27.1	27.6	27.1
67.5°	57.5	49.5	40.2	31.3	24.8	22.4	20.6	19.2	20.1	19.2	18.7
70°	42.1	35.5	29.0	23.8	19.2	16.8	15.4	14.9	14.0	14.0	14.0
72.5°	28.0	23.8	19.6	15.4	12.6	10.3	9.8	8.9	7.9	8.4	9.3
75°	18.7	15.9	14.0	11.2	8.4	8.4	5.6	5.6	4.7	5.6	4.2
77.5°	13.1	10.8	8.4	7.0	5.6	5.1	3.7	3.7	3.3	3.3	3.3
80°	9.3	7.9	6.1	5.1	3.7	3.7	3.3	2.8	2.3	2.3	2.8
82.5°	5.6	4.2	4.2	3.7	2.3	1.9	1.4	1.9	0.9	0.9	0.9
85°	3.3	2.8	2.3	1.4	0.9	0.9	0.5	0.0	0.5	0.5	0.0
87.5°	1.9	0.9	0.9	0.5	0.0	0.5	0.5	0.0	0.0	0.0	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0
2.5°	962.6	962.1	963.1	963.1	965.9	965.4	966.8	966.8	965.9	966.3	968.2
5°	965.9	967.3	970.1	972.4	976.6	978.5	980.8	983.2	983.6	985.0	986.4
7.5°	965.9	970.6	973.8	978.0	983.6	986.9	992.0	996.2	998.1	1000.4	1003.3
10°	964.0	968.7	974.7	979.4	986.4	991.6	996.7	1003.3	1006.1	1009.8	1013.5
12.5°	960.3	965.4	971.9	978.0	986.0	990.6	997.2	1003.3	1007.5	1012.6	1016.8
15°	954.7	960.7	966.8	972.9	981.3	986.9	993.0	1000.0	1004.2	1009.8	1013.5
17.5°	945.8	952.3	957.9	963.5	971.5	978.0	983.6	990.2	994.4	999.1	1004.2
20°	935.0	941.1	947.2	951.9	959.8	965.4	971.5	977.6	980.8	981.8	989.7
22.5°	921.5	925.7	930.4	937.8	942.5	947.6	953.3	958.9	962.1	967.3	970.1
25°	899.0	903.3	908.4	911.7	917.3	921.5	927.1	933.2	935.0	938.8	941.6
27.5°	867.7	870.1	872.4	875.2	878.5	880.8	884.1	886.9	888.8	890.6	892.5
30°	818.2	818.2	818.2	816.3	817.7	819.1	819.6	819.1	819.1	818.7	818.7
32.5°	752.8	749.1	744.8	741.1	739.7	737.8	736.9	735.5	733.2	731.8	732.2
35°	664.5	656.1	650.9	646.3	642.5	639.7	638.3	636.9	636.4	634.6	632.7
37.5°	554.2	548.1	544.4	541.6	538.3	535.5	536.0	536.4	537.8	536.9	537.4
40°	437.4	436.0	437.4	434.1	433.2	434.1	436.4	439.7	441.6	443.5	446.7
42.5°	332.7	335.0	338.3	338.3	339.7	341.6	344.4	349.5	352.3	355.6	359.3
45°	250.5	253.3	257.5	258.9	259.8	262.1	265.4	269.6	271.5	274.3	277.6
47.5°	193.0	194.9	197.2	199.5	201.9	202.8	206.1	206.1	208.4	210.3	211.2
50°	150.5	152.3	154.2	155.6	156.5	157.9	158.9	160.3	160.7	161.7	162.1
52.5°	117.7	120.1	120.1	121.0	122.4	123.8	123.4	123.8	124.3	124.3	125.7
55°	92.1	92.1	93.5	93.5	94.4	93.9	94.4	94.4	94.4	94.4	94.9
57.5°	68.7	69.2	70.6	69.6	69.2	70.1	69.2	70.1	69.6	70.6	69.2
60°	52.8	52.8	53.3	53.3	53.7	53.7	53.7	53.3	53.3	52.8	52.8
62.5°	39.7	40.2	40.7	40.2	40.2	40.2	39.7	39.7	39.3	38.8	38.8
65°	26.6	26.2	27.1	26.2	26.6	26.6	26.2	26.6	25.2	25.7	25.2
67.5°	19.2	18.7	18.2	18.7	18.2	17.8	17.8	18.2	18.7	17.3	17.3
70°	12.6	13.1	12.6	13.1	13.6	13.6	13.1	12.6	13.1	12.2	12.6
72.5°	7.9	7.9	7.9	7.9	7.9	8.4	8.4	8.4	7.5	7.5	7.0
75°	3.7	5.1	4.2	3.7	5.1	5.1	4.7	4.7	4.2	4.2	4.2
77.5°	3.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.3	2.8	2.3
80°	1.9	1.9	1.9	1.4	1.9	1.9	2.3	1.9	1.9	1.4	2.3
82.5°	0.9	0.9	0.9	0.0	0.5	0.9	0.9	0.5	0.9	0.9	0.5
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°	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0
2.5°	967.7	967.3	967.7	968.2	967.7	967.3	967.7	968.2	966.3	965.9	966.8
5°	988.3	988.3	989.2	989.7	989.2	988.3	988.3	986.4	985.0	983.6	983.2
7.5°	1006.1	1007.0	1007.9	1008.4	1007.9	1007.0	1006.1	1003.3	1000.4	998.1	996.2
10°	1016.8	1018.2	1020.1	1021.0	1020.1	1018.2	1016.8	1013.5	1009.8	1006.1	1003.3
12.5°	1021.5	1022.9	1025.2	1024.8	1025.2	1022.9	1021.5	1016.8	1012.6	1007.5	1003.3
15°	1018.2	1020.1	1022.4	1023.3	1022.4	1020.1	1018.2	1013.5	1009.8	1004.2	1000.0
17.5°	1007.9	1010.7	1012.1	1013.5	1012.1	1010.7	1007.9	1004.2	999.1	994.4	990.2
20°	993.9	995.8	997.7	998.1	997.7	995.8	993.9	989.7	981.8	980.8	977.6
22.5°	973.8	975.2	979.4	978.0	979.4	975.2	973.8	970.1	967.3	962.1	958.9
25°	944.8	946.2	946.7	947.2	946.7	946.2	944.8	941.6	938.8	935.0	933.2
27.5°	894.8	894.8	895.8	896.3	895.8	894.8	894.8	892.5	890.6	888.8	886.9
30°	819.1	819.1	819.1	821.5	819.1	819.1	819.1	818.7	818.7	819.1	819.1
32.5°	731.8	730.8	729.9	730.8	729.9	730.8	731.8	732.2	731.8	733.2	735.5
35°	632.7	632.2	633.6	631.8	633.6	632.2	632.7	632.7	634.6	636.4	636.9
37.5°	537.8	536.9	538.8	536.9	538.8	536.9	537.8	537.4	536.9	537.8	536.4
40°	447.7	448.6	448.6	452.3	448.6	448.6	447.7	446.7	443.5	441.6	439.7
42.5°	361.2	364.0	363.1	365.9	363.1	364.0	361.2	359.3	355.6	352.3	349.5
45°	279.4	281.3	281.3	282.2	281.3	281.3	279.4	277.6	274.3	271.5	269.6
47.5°	214.5	214.5	214.5	215.0	214.5	214.5	214.5	211.2	210.3	208.4	206.1
50°	163.1	163.5	164.0	164.5	164.0	163.5	163.1	162.1	161.7	160.7	160.3
52.5°	125.2	125.7	124.8	125.7	124.8	125.7	125.2	125.7	124.3	124.3	123.8
55°	94.9	94.4	94.9	95.3	94.9	94.4	94.9	94.9	94.4	94.4	94.4
57.5°	69.6	68.7	68.7	68.7	68.7	68.7	69.6	69.2	70.6	69.6	70.1
60°	51.9	52.3	52.3	52.8	52.3	52.3	51.9	52.8	52.8	53.3	53.3
62.5°	38.3	39.7	38.8	39.7	38.8	39.7	38.3	38.8	38.8	39.3	39.7
65°	24.8	24.8	24.8	25.2	24.8	24.8	24.8	25.2	25.7	25.2	26.6
67.5°	16.8	17.3	18.2	17.8	18.2	17.3	16.8	17.3	17.3	18.7	18.2
70°	13.6	12.2	12.2	13.6	12.2	12.2	13.6	12.6	12.2	13.1	12.6
72.5°	7.9	7.0	7.9	7.9	7.9	7.0	7.9	7.0	7.5	7.5	8.4
75°	4.2	3.7	3.3	4.7	3.3	3.7	4.2	4.2	4.2	4.2	4.7
77.5°	2.8	2.3	3.3	3.3	3.3	2.3	2.8	2.3	2.8	2.3	2.8
80°	1.4	1.9	1.4	2.3	1.4	1.9	1.4	2.3	1.4	1.9	1.9
82.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.9	0.9	0.5
85°	0.0	0.9	0.5	0.5	0.5	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.5	0.0	0.0	0.5	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°	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0
2.5°	966.8	965.4	965.9	963.1	963.1	962.1	962.6	960.3	959.3	958.4	959.8
5°	980.8	978.5	976.6	972.4	970.1	967.3	965.9	962.1	958.9	956.1	955.6
7.5°	992.0	986.9	983.6	978.0	973.8	970.6	965.9	960.7	956.5	952.8	950.0
10°	996.7	991.6	986.4	979.4	974.7	968.7	964.0	957.5	951.9	946.7	943.4
12.5°	997.2	990.6	986.0	978.0	971.9	965.4	960.3	952.8	946.2	941.1	936.0
15°	993.0	986.9	981.3	972.9	966.8	960.7	954.7	946.7	940.6	934.6	930.8
17.5°	983.6	978.0	971.5	963.5	957.9	952.3	945.8	939.2	932.2	925.7	921.0
20°	971.5	965.4	959.8	951.9	947.2	941.1	935.0	928.0	922.4	915.9	910.7
22.5°	953.3	947.6	942.5	937.8	930.4	925.7	921.5	913.5	907.9	901.9	896.3
25°	927.1	921.5	917.3	911.7	908.4	903.3	899.0	892.0	886.9	881.3	876.6
27.5°	884.1	880.8	878.5	875.2	872.4	870.1	867.7	862.1	858.4	853.3	848.6
30°	819.6	819.1	817.7	816.3	818.2	818.2	818.2	817.3	814.0	810.3	807.0
32.5°	736.9	737.8	739.7	741.1	744.8	749.1	752.8	754.7	754.7	752.3	750.9
35°	638.3	639.7	642.5	646.3	650.9	656.1	664.5	666.4	667.7	667.7	665.9
37.5°	536.0	535.5	538.3	541.6	544.4	548.1	554.2	555.6	557.9	557.0	555.1
40°	436.4	434.1	433.2	434.1	437.4	436.0	437.4	436.4	436.4	433.2	433.2
42.5°	344.4	341.6	339.7	338.3	338.3	335.0	332.7	330.4	329.0	326.6	326.2
45°	265.4	262.1	259.8	258.9	257.5	253.3	250.5	247.7	244.4	243.5	243.9
47.5°	206.1	202.8	201.9	199.5	197.2	194.9	193.0	189.7	189.2	187.4	189.2
50°	158.9	157.9	156.5	155.6	154.2	152.3	150.5	148.6	147.7	147.7	148.1
52.5°	123.4	123.8	122.4	121.0	120.1	120.1	117.7	117.3	117.3	115.4	117.3
55°	94.4	93.9	94.4	93.5	93.5	92.1	92.1	90.6	90.6	89.2	90.2
57.5°	69.2	70.1	69.2	69.6	70.6	69.2	68.7	67.3	68.2	67.3	67.8
60°	53.7	53.7	53.7	53.3	53.3	52.8	52.8	52.3	52.3	51.4	52.3
62.5°	39.7	40.2	40.2	40.2	40.7	40.2	39.7	40.2	39.7	39.7	40.2
65°	26.2	26.6	26.6	26.2	27.1	26.2	26.6	27.1	27.6	27.1	27.6
67.5°	17.8	17.8	18.2	18.7	18.2	18.7	19.2	18.7	19.2	20.1	19.2
70°	13.1	13.6	13.6	13.1	12.6	13.1	12.6	14.0	14.0	14.0	14.9
72.5°	8.4	8.4	7.9	7.9	7.9	7.9	7.9	9.3	8.4	7.9	8.9
75°	4.7	5.1	5.1	3.7	4.2	5.1	3.7	4.2	5.6	4.7	5.6
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.3	3.3	3.3	3.7
80°	2.3	1.9	1.9	1.4	1.9	1.9	1.9	2.8	2.3	2.3	2.8
82.5°	0.9	0.9	0.5	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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°	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0	957.0
2.5°	956.1	956.1	955.6	954.7	952.8	952.8	952.3	950.9	950.0	949.5	949.5
5°	951.4	949.5	947.6	942.5	942.5	941.6	938.8	936.9	936.0	933.6	932.7
7.5°	947.2	941.6	938.3	935.0	930.8	929.0	925.7	924.3	921.0	918.7	917.3
10°	936.9	933.2	929.0	923.8	920.5	916.8	913.1	910.3	906.1	903.7	901.9
12.5°	929.9	924.3	920.5	914.9	909.3	906.1	900.9	897.7	893.4	888.8	886.0
15°	923.4	917.3	912.1	906.1	900.0	896.3	890.2	886.4	880.4	875.7	872.4
17.5°	913.5	908.4	902.8	895.3	889.7	885.0	878.5	873.8	868.2	862.1	858.9
20°	903.3	897.2	891.6	884.1	878.5	872.9	866.3	861.2	854.7	849.1	845.3
22.5°	889.7	882.7	878.0	870.5	864.0	857.9	851.9	845.8	839.7	835.0	830.8
25°	870.1	862.6	857.5	851.4	845.3	840.6	833.2	829.4	823.4	819.1	814.9
27.5°	842.0	836.4	831.8	825.7	820.5	816.8	811.2	807.5	802.3	798.6	795.3
30°	800.9	796.3	792.0	786.0	782.2	779.0	773.8	770.5	766.8	762.6	761.7
32.5°	745.8	742.0	737.8	733.6	730.8	729.0	724.7	722.9	719.1	716.8	714.5
35°	662.6	659.3	657.0	655.1	654.2	654.7	653.7	655.6	656.5	656.1	656.5
37.5°	553.7	551.9	552.8	554.2	558.9	565.0	570.5	579.0	584.6	590.2	595.3
40°	432.2	433.6	437.4	445.8	457.9	471.5	484.1	500.0	515.9	527.1	537.4
42.5°	326.2	330.4	339.7	351.9	370.1	390.2	409.8	433.2	452.3	471.0	484.1
45°	245.3	250.9	263.1	279.9	300.0	323.4	348.1	374.3	397.2	416.4	430.8
47.5°	191.1	196.3	208.4	226.2	250.9	275.2	300.9	328.0	351.9	370.6	383.2
50°	150.9	157.5	168.2	186.9	211.7	237.4	264.0	290.6	313.1	329.0	340.2
52.5°	118.7	124.8	135.0	154.7	179.9	205.6	230.4	256.5	276.2	291.6	299.1
55°	92.1	97.7	108.4	124.8	148.6	173.8	198.6	221.0	239.2	250.5	257.5
57.5°	70.1	74.3	81.8	98.1	119.6	143.0	164.0	186.5	200.5	208.4	213.1
60°	53.3	56.5	64.5	77.1	96.7	116.8	134.6	151.4	162.6	169.2	173.8
62.5°	40.2	43.9	49.5	60.3	75.2	91.6	106.5	119.2	128.5	132.7	136.0
65°	27.6	30.4	34.6	43.0	55.6	67.3	79.0	88.3	94.4	99.1	100.9
67.5°	20.6	22.4	24.8	31.3	40.2	49.5	57.5	64.0	70.6	72.4	75.7
70°	15.4	16.8	19.2	23.8	29.0	35.5	42.1	45.8	50.5	53.7	54.7
72.5°	9.8	10.3	12.6	15.4	19.6	23.8	28.0	31.3	34.1	36.0	36.9
75°	5.6	8.4	8.4	11.2	14.0	15.9	18.7	21.0	22.4	23.8	23.8
77.5°	3.7	5.1	5.6	7.0	8.4	10.8	13.1	14.5	15.9	16.3	16.3
80°	3.3	3.7	3.7	5.1	6.1	7.9	9.3	9.8	10.8	11.2	12.2
82.5°	1.4	1.9	2.3	3.7	4.2	4.2	5.6	6.1	7.0	7.5	7.5
85°	0.5	0.9	0.9	1.4	2.3	2.8	3.3	3.7	4.2	4.2	4.7
87.5°	0.5	0.5	0.0	0.5	0.9	0.9	1.9	1.9	1.9	2.8	2.8
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: P245894

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	957.0	957.0	957.0	957.0	957.0	957.0	957.0
2.5°	948.6	949.0	947.2	946.7	945.8	946.2	947.2
5°	931.3	931.8	929.9	928.0	928.0	927.5	928.0
7.5°	914.9	915.4	912.6	911.7	909.8	910.3	910.3
10°	898.6	898.6	894.4	893.9	892.5	892.0	892.0
12.5°	882.7	881.3	878.0	876.2	877.1	874.3	874.3
15°	868.7	866.3	862.1	860.7	858.4	857.5	857.5
17.5°	854.2	852.3	848.6	845.8	843.0	842.5	843.0
20°	840.2	838.3	833.6	831.8	829.4	829.4	828.5
22.5°	826.1	824.3	820.1	818.7	815.4	815.4	815.9
25°	811.7	810.3	805.6	804.7	804.2	802.3	803.3
27.5°	792.0	791.1	787.4	786.0	784.1	783.6	784.6
30°	756.1	754.7	751.9	750.5	747.2	747.7	748.6
32.5°	711.2	709.3	705.6	704.2	701.4	700.5	700.9
35°	655.1	653.7	650.5	650.5	647.7	646.7	647.7
37.5°	598.1	599.5	598.1	599.5	598.1	597.6	598.1
40°	544.4	549.5	550.5	555.6	553.7	556.5	556.1
42.5°	493.0	501.4	504.7	508.9	507.9	509.8	511.2
45°	441.1	448.1	451.4	454.2	454.7	455.6	456.1
47.5°	392.0	397.7	398.1	401.4	400.9	400.9	402.3
50°	346.3	350.0	350.9	353.3	351.4	350.5	350.9
52.5°	303.7	307.5	306.5	307.5	305.1	304.2	304.7
55°	260.3	262.1	262.1	262.1	259.3	259.3	259.3
57.5°	215.9	216.4	215.4	215.9	215.4	212.6	212.1
60°	175.2	175.2	174.8	175.2	173.8	172.4	172.4
62.5°	136.9	137.8	139.7	137.8	136.9	137.8	136.4
65°	102.3	104.2	103.7	104.7	104.2	104.2	103.3
67.5°	77.1	77.6	78.0	78.5	78.5	78.5	78.5
70°	56.5	58.0	57.5	57.5	57.5	57.5	60.3
72.5°	37.9	39.7	39.3	40.2	40.2	41.1	40.2
75°	25.7	27.6	26.6	28.0	27.6	26.6	29.0
77.5°	17.3	18.2	18.7	19.2	18.7	18.2	18.7
80°	12.2	13.1	12.6	13.1	13.1	13.1	13.6
82.5°	7.5	8.9	8.4	8.9	8.4	8.9	8.9
85°	5.1	5.6	4.7	5.6	5.1	5.1	6.1
87.5°	3.3	2.8	2.8	3.3	2.8	3.3	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)