

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: P244537

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244537  
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: LSR8B15D010 EC8B15840 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE 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: 1534.0 lumens  
Efficiency: N/A  
Efficacy: 106.5 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

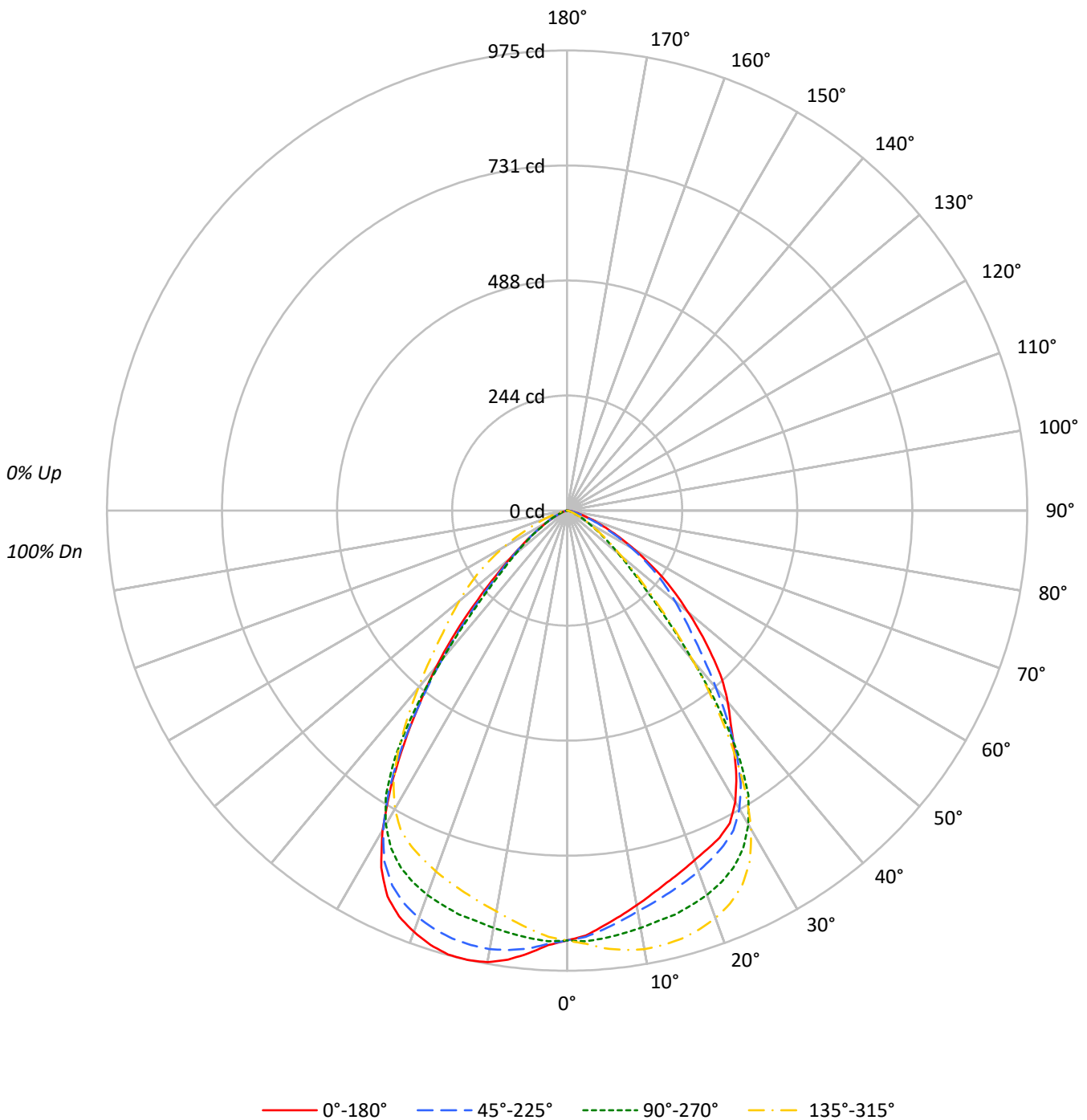
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	28083	28083	28083	28083
5°	27336	28150	29153	28150
10°	26581	28112	30423	28112
15°	26050	28278	31088	28278
20°	25872	28441	31168	28441
25°	26008	28383	30669	28383
30°	25366	27342	27834	27342
35°	23200	23855	22632	23855
40°	21302	16593	17329	16593
45°	18926	10122	11713	10122
50°	16018	6764	7508	6764
55°	13268	4613	4876	4613
60°	10120	3071	3096	3071
65°	7172	1912	1751	1912
70°	5175	1280	1163	1280
75°	3288	631	524	631
80°	2291	479	391	479
85°	2052	0	142	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.7	5.7
10°-20°	251.0	16.4
20°-30°	380.1	24.8
30°-40°	380.9	24.8
40°-50°	239.2	15.6
50°-60°	127.5	8.3
60°-70°	52.4	3.4
70°-80°	13.9	0.9
80°-90°	2.3	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°	717.8	46.8
0°-40°	1098.7	71.6
0°-60°	1465.4	95.5
0°-90°	1534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	911	911	911	911	911	
5°	883	909	942	909	883	83
15°	816	886	974	886	816	231
25°	764	834	901	834	764	351
35°	616	634	601	634	616	386
45°	434	232	269	232	434	334
55°	247	86	91	86	247	220
65°	98	26	24	26	98	102
75°	28	5	4	5	28	31
85°	6	0	0	0	6	6
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°	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7
2.5°	901.4	900.5	900.0	900.9	901.4	903.1	902.7	903.6	903.6	904.0	904.9
5°	883.1	882.7	883.1	883.1	884.9	886.7	886.2	887.6	888.4	890.7	891.6
7.5°	866.2	866.2	865.8	867.5	868.4	871.1	870.7	872.9	874.2	876.4	879.6
10°	848.9	848.9	849.3	850.7	851.1	855.1	855.1	858.2	860.0	862.2	866.2
12.5°	832.0	832.0	834.7	833.8	835.5	838.6	840.0	843.1	845.8	850.2	854.2
15°	816.0	816.0	816.9	819.1	820.4	824.4	826.6	830.2	833.3	837.8	843.6
17.5°	802.2	801.7	802.2	804.9	807.5	811.1	812.9	817.3	820.4	826.2	831.5
20°	788.4	789.3	789.3	791.5	793.3	797.7	799.5	804.4	808.0	813.3	819.5
22.5°	776.4	776.0	776.0	779.1	780.4	784.4	786.2	790.6	794.6	799.1	804.9
25°	764.4	763.5	765.3	765.7	766.6	771.1	772.4	775.5	779.5	783.5	789.3
27.5°	746.6	745.7	746.2	747.9	749.3	752.8	753.7	756.8	759.9	763.5	768.4
30°	712.4	711.5	711.0	714.1	715.5	718.1	719.5	724.8	725.7	729.7	733.3
32.5°	667.0	666.6	667.5	670.1	671.4	675.0	676.8	679.9	682.1	684.4	687.9
35°	616.3	615.4	616.3	619.0	619.0	622.1	623.4	624.8	624.3	624.8	623.9
37.5°	569.2	568.7	569.2	570.5	569.2	570.5	569.2	566.5	561.6	556.3	550.9
40°	529.2	529.6	526.9	528.7	523.8	522.9	518.0	511.4	501.6	490.9	475.8
42.5°	486.5	485.1	483.4	484.2	480.3	477.1	469.1	460.7	448.2	430.5	412.2
45°	434.0	433.6	432.7	432.2	429.6	426.4	419.8	410.0	396.2	378.0	356.2
47.5°	382.9	381.5	381.5	382.0	378.9	378.4	373.1	364.6	352.6	334.8	312.2
50°	333.9	333.5	334.4	336.2	333.9	333.1	329.5	323.7	313.1	297.9	276.6
52.5°	289.9	289.5	290.4	292.6	291.7	292.6	289.0	284.6	277.5	262.8	244.1
55°	246.8	246.8	246.8	249.5	249.5	249.5	247.7	245.0	238.3	227.7	210.3
57.5°	201.9	202.3	205.0	205.4	205.0	205.9	205.4	202.8	198.3	190.8	177.4
60°	164.1	164.1	165.4	166.8	166.3	166.8	166.8	165.4	161.0	154.8	144.1
62.5°	129.8	131.2	130.3	131.2	133.0	131.2	130.3	129.4	126.3	122.3	113.4
65°	98.3	99.2	99.2	99.6	98.7	99.2	97.4	96.1	94.3	89.8	84.0
67.5°	74.7	74.7	74.7	74.7	74.3	73.8	73.4	72.0	68.9	67.2	60.9
70°	57.4	54.7	54.7	54.7	54.7	55.1	53.8	52.0	51.1	48.0	43.6
72.5°	38.2	39.1	38.2	38.2	37.4	37.8	36.0	35.1	34.2	32.5	29.8
75°	27.6	25.3	26.2	26.7	25.3	26.2	24.5	22.7	22.7	21.3	20.0
77.5°	17.8	17.4	17.8	18.2	17.8	17.4	16.5	15.6	15.6	15.1	13.8
80°	12.9	12.4	12.4	12.4	12.0	12.4	11.6	11.6	10.7	10.2	9.3
82.5°	8.5	8.5	8.0	8.5	8.0	8.5	7.1	7.1	7.1	6.7	5.8
85°	5.8	4.9	4.9	5.3	4.4	5.3	4.9	4.4	4.0	4.0	3.6
87.5°	2.7	3.1	2.7	3.1	2.7	2.7	3.1	2.7	2.7	1.8	1.8
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°	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7
2.5°	906.2	906.7	906.7	908.5	909.4	909.8	909.8	913.4	912.0	912.9	913.8
5°	893.4	896.0	896.9	896.9	901.8	903.6	905.3	909.4	909.8	912.5	915.6
7.5°	880.9	884.0	885.8	889.8	892.9	896.0	901.4	904.0	906.7	910.2	914.2
10°	868.9	872.5	876.0	879.1	884.0	888.0	891.6	897.8	900.9	905.8	911.1
12.5°	857.3	862.2	865.3	870.7	876.0	879.6	884.9	890.7	895.6	900.5	906.7
15°	847.1	852.9	856.4	862.2	868.0	872.9	878.7	885.8	889.3	895.1	900.9
17.5°	836.0	842.2	846.7	852.0	859.1	864.4	869.3	876.4	880.9	887.1	893.8
20°	824.4	830.6	836.0	841.3	848.4	853.8	859.5	866.7	871.6	877.8	883.1
22.5°	810.6	816.4	822.2	828.4	835.5	840.0	846.7	852.9	858.2	864.0	869.3
25°	792.9	800.0	804.4	810.2	816.0	820.9	828.0	834.2	838.6	844.0	848.9
27.5°	772.0	777.3	780.8	785.7	791.5	796.0	801.3	807.5	812.0	816.9	820.4
30°	736.4	741.3	744.4	747.9	753.7	757.7	762.2	767.9	771.1	774.6	777.7
32.5°	689.7	693.7	695.5	698.1	702.1	706.1	709.7	714.6	715.9	718.1	718.1
35°	622.1	623.0	622.5	623.4	625.2	627.4	630.5	633.7	635.4	635.4	634.1
37.5°	542.9	537.6	531.8	527.4	526.0	525.2	526.9	528.3	530.1	530.9	528.7
40°	460.7	448.7	435.8	424.2	416.2	412.7	411.3	412.2	412.2	415.3	415.3
42.5°	390.0	371.3	352.2	334.8	323.3	314.4	310.4	310.4	310.8	313.1	314.4
45°	331.3	307.7	285.5	266.4	250.3	238.8	233.5	232.1	231.7	232.6	235.7
47.5°	286.4	261.9	238.8	215.2	198.3	186.8	181.9	180.1	178.3	180.1	180.5
50°	251.2	225.9	201.4	177.9	160.1	149.8	143.6	141.0	140.5	140.5	141.4
52.5°	219.2	195.7	171.2	147.2	128.5	118.7	112.9	111.6	109.8	111.6	111.6
55°	189.0	165.4	141.4	118.7	103.2	92.9	87.6	85.8	84.9	86.3	86.3
57.5°	156.1	136.1	113.8	93.4	77.8	70.7	66.7	64.5	64.0	64.9	64.0
60°	128.1	111.2	92.0	73.4	61.4	53.8	50.7	49.8	48.9	49.8	49.8
62.5°	101.4	87.2	71.6	57.4	47.1	41.8	38.2	38.2	37.8	37.8	38.2
65°	75.2	64.0	52.9	40.9	32.9	28.9	26.2	26.2	25.8	26.2	25.8
67.5°	54.7	47.1	38.2	29.8	23.6	21.3	19.6	18.2	19.1	18.2	17.8
70°	40.0	33.8	27.6	22.7	18.2	16.0	14.7	14.2	13.3	13.3	13.3
72.5°	26.7	22.7	18.7	14.7	12.0	9.8	9.3	8.5	7.6	8.0	8.9
75°	17.8	15.1	13.3	10.7	8.0	8.0	5.3	5.3	4.4	5.3	4.0
77.5°	12.4	10.2	8.0	6.7	5.3	4.9	3.6	3.6	3.1	3.1	3.1
80°	8.9	7.6	5.8	4.9	3.6	3.6	3.1	2.7	2.2	2.2	2.7
82.5°	5.3	4.0	4.0	3.6	2.2	1.8	1.3	1.8	0.9	0.9	0.9
85°	3.1	2.7	2.2	1.3	0.9	0.9	0.4	0.0	0.4	0.4	0.0
87.5°	1.8	0.9	0.9	0.4	0.0	0.4	0.4	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°	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7
2.5°	916.0	915.6	916.5	916.5	919.1	918.7	920.0	920.0	919.1	919.6	921.4
5°	919.1	920.5	923.1	925.4	929.4	931.2	933.4	935.6	936.0	937.4	938.7
7.5°	919.1	923.6	926.7	930.7	936.0	939.1	944.0	948.0	949.8	952.0	954.7
10°	917.3	921.8	927.6	932.0	938.7	943.6	948.5	954.7	957.4	960.9	964.5
12.5°	913.8	918.7	924.9	930.7	938.3	942.7	948.9	954.7	958.7	963.6	967.6
15°	908.5	914.2	920.0	925.8	933.8	939.1	944.9	951.6	955.6	960.9	964.5
17.5°	900.0	906.2	911.6	916.9	924.5	930.7	936.0	942.3	946.3	950.7	955.6
20°	889.8	895.6	901.4	905.8	913.4	918.7	924.5	930.3	933.4	934.3	941.8
22.5°	876.9	880.9	885.3	892.5	896.9	901.8	907.1	912.5	915.6	920.5	923.1
25°	855.5	859.5	864.4	867.5	872.9	876.9	882.2	888.0	889.8	893.4	896.0
27.5°	825.8	828.0	830.2	832.9	836.0	838.2	841.3	844.0	845.8	847.5	849.3
30°	778.6	778.6	778.6	776.8	778.2	779.5	779.9	779.5	779.5	779.1	779.1
32.5°	716.4	712.8	708.8	705.3	703.9	702.1	701.2	699.9	697.7	696.4	696.8
35°	632.3	624.3	619.4	615.0	611.4	608.8	607.4	606.1	605.6	603.9	602.1
37.5°	527.4	521.6	518.0	515.4	512.3	509.6	510.0	510.5	511.8	510.9	511.4
40°	416.2	414.9	416.2	413.1	412.2	413.1	415.3	418.4	420.2	422.0	425.1
42.5°	316.6	318.8	322.0	322.0	323.3	325.1	327.7	332.6	335.3	338.4	342.0
45°	238.3	241.0	245.0	246.3	247.2	249.5	252.6	256.6	258.3	261.0	264.1
47.5°	183.7	185.4	187.6	189.9	192.1	193.0	196.1	196.1	198.3	200.1	201.0
50°	143.2	145.0	146.7	148.1	149.0	150.3	151.2	152.5	153.0	153.9	154.3
52.5°	112.1	114.3	114.3	115.2	116.5	117.8	117.4	117.8	118.3	118.3	119.6
55°	87.6	87.6	88.9	88.9	89.8	89.4	89.8	89.8	89.8	89.8	90.3
57.5°	65.4	65.8	67.2	66.3	65.8	66.7	65.8	66.7	66.3	67.2	65.8
60°	50.2	50.2	50.7	50.7	51.1	51.1	51.1	50.7	50.7	50.2	50.2
62.5°	37.8	38.2	38.7	38.2	38.2	38.2	37.8	37.8	37.4	36.9	36.9
65°	25.3	24.9	25.8	24.9	25.3	25.3	24.9	25.3	24.0	24.5	24.0
67.5°	18.2	17.8	17.4	17.8	17.4	16.9	16.9	17.4	17.8	16.5	16.5
70°	12.0	12.4	12.0	12.4	12.9	12.9	12.4	12.0	12.4	11.6	12.0
72.5°	7.6	7.6	7.6	7.6	7.6	8.0	8.0	8.0	7.1	7.1	6.7
75°	3.6	4.9	4.0	3.6	4.9	4.9	4.4	4.4	4.0	4.0	4.0
77.5°	3.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.2	2.7	2.2
80°	1.8	1.8	1.8	1.3	1.8	1.8	2.2	1.8	1.8	1.3	2.2
82.5°	0.9	0.9	0.9	0.0	0.4	0.9	0.9	0.4	0.9	0.9	0.4
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°	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7
2.5°	920.9	920.5	920.9	921.4	920.9	920.5	920.9	921.4	919.6	919.1	920.0
5°	940.5	940.5	941.4	941.8	941.4	940.5	940.5	938.7	937.4	936.0	935.6
7.5°	957.4	958.3	959.2	959.6	959.2	958.3	957.4	954.7	952.0	949.8	948.0
10°	967.6	968.9	970.7	971.6	970.7	968.9	967.6	964.5	960.9	957.4	954.7
12.5°	972.1	973.4	975.6	975.2	975.6	973.4	972.1	967.6	963.6	958.7	954.7
15°	968.9	970.7	972.9	973.8	972.9	970.7	968.9	964.5	960.9	955.6	951.6
17.5°	959.2	961.8	963.2	964.5	963.2	961.8	959.2	955.6	950.7	946.3	942.3
20°	945.8	947.6	949.4	949.8	949.4	947.6	945.8	941.8	934.3	933.4	930.3
22.5°	926.7	928.0	932.0	930.7	932.0	928.0	926.7	923.1	920.5	915.6	912.5
25°	899.1	900.5	900.9	901.4	900.9	900.5	899.1	896.0	893.4	889.8	888.0
27.5°	851.6	851.6	852.4	852.9	852.4	851.6	851.6	849.3	847.5	845.8	844.0
30°	779.5	779.5	779.5	781.7	779.5	779.5	779.5	779.1	779.1	779.5	779.5
32.5°	696.4	695.5	694.6	695.5	694.6	695.5	696.4	696.8	696.4	697.7	699.9
35°	602.1	601.6	603.0	601.2	603.0	601.6	602.1	602.1	603.9	605.6	606.1
37.5°	511.8	510.9	512.7	510.9	512.7	510.9	511.8	511.4	510.9	511.8	510.5
40°	426.0	426.9	426.9	430.5	426.9	426.9	426.0	425.1	422.0	420.2	418.4
42.5°	343.7	346.4	345.5	348.2	345.5	346.4	343.7	342.0	338.4	335.3	332.6
45°	265.9	267.7	267.7	268.6	267.7	267.7	265.9	264.1	261.0	258.3	256.6
47.5°	204.1	204.1	204.1	204.6	204.1	204.1	204.1	201.0	200.1	198.3	196.1
50°	155.2	155.6	156.1	156.5	156.1	155.6	155.2	154.3	153.9	153.0	152.5
52.5°	119.2	119.6	118.7	119.6	118.7	119.6	119.2	119.6	118.3	118.3	117.8
55°	90.3	89.8	90.3	90.7	90.3	89.8	90.3	90.3	89.8	89.8	89.8
57.5°	66.3	65.4	65.4	65.4	65.4	65.4	66.3	65.8	67.2	66.3	66.7
60°	49.4	49.8	49.8	50.2	49.8	49.8	49.4	50.2	50.2	50.7	50.7
62.5°	36.5	37.8	36.9	37.8	36.9	37.8	36.5	36.9	36.9	37.4	37.8
65°	23.6	23.6	23.6	24.0	23.6	23.6	23.6	24.0	24.5	24.0	25.3
67.5°	16.0	16.5	17.4	16.9	17.4	16.5	16.0	16.5	16.5	17.8	17.4
70°	12.9	11.6	11.6	12.9	11.6	11.6	12.9	12.0	11.6	12.4	12.0
72.5°	7.6	6.7	7.6	7.6	7.6	6.7	7.6	6.7	7.1	7.1	8.0
75°	4.0	3.6	3.1	4.4	3.1	3.6	4.0	4.0	4.0	4.0	4.4
77.5°	2.7	2.2	3.1	3.1	3.1	2.2	2.7	2.2	2.7	2.2	2.7
80°	1.3	1.8	1.3	2.2	1.3	1.8	1.3	2.2	1.3	1.8	1.8
82.5°	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.9	0.9	0.4
85°	0.0	0.9	0.4	0.4	0.4	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.4	0.0	0.0	0.4	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°	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7
2.5°	920.0	918.7	919.1	916.5	916.5	915.6	916.0	913.8	912.9	912.0	913.4
5°	933.4	931.2	929.4	925.4	923.1	920.5	919.1	915.6	912.5	909.8	909.4
7.5°	944.0	939.1	936.0	930.7	926.7	923.6	919.1	914.2	910.2	906.7	904.0
10°	948.5	943.6	938.7	932.0	927.6	921.8	917.3	911.1	905.8	900.9	897.8
12.5°	948.9	942.7	938.3	930.7	924.9	918.7	913.8	906.7	900.5	895.6	890.7
15°	944.9	939.1	933.8	925.8	920.0	914.2	908.5	900.9	895.1	889.3	885.8
17.5°	936.0	930.7	924.5	916.9	911.6	906.2	900.0	893.8	887.1	880.9	876.4
20°	924.5	918.7	913.4	905.8	901.4	895.6	889.8	883.1	877.8	871.6	866.7
22.5°	907.1	901.8	896.9	892.5	885.3	880.9	876.9	869.3	864.0	858.2	852.9
25°	882.2	876.9	872.9	867.5	864.4	859.5	855.5	848.9	844.0	838.6	834.2
27.5°	841.3	838.2	836.0	832.9	830.2	828.0	825.8	820.4	816.9	812.0	807.5
30°	779.9	779.5	778.2	776.8	778.6	778.6	778.6	777.7	774.6	771.1	767.9
32.5°	701.2	702.1	703.9	705.3	708.8	712.8	716.4	718.1	718.1	715.9	714.6
35°	607.4	608.8	611.4	615.0	619.4	624.3	632.3	634.1	635.4	635.4	633.7
37.5°	510.0	509.6	512.3	515.4	518.0	521.6	527.4	528.7	530.9	530.1	528.3
40°	415.3	413.1	412.2	413.1	416.2	414.9	416.2	415.3	415.3	412.2	412.2
42.5°	327.7	325.1	323.3	322.0	322.0	318.8	316.6	314.4	313.1	310.8	310.4
45°	252.6	249.5	247.2	246.3	245.0	241.0	238.3	235.7	232.6	231.7	232.1
47.5°	196.1	193.0	192.1	189.9	187.6	185.4	183.7	180.5	180.1	178.3	180.1
50°	151.2	150.3	149.0	148.1	146.7	145.0	143.2	141.4	140.5	140.5	141.0
52.5°	117.4	117.8	116.5	115.2	114.3	114.3	112.1	111.6	111.6	109.8	111.6
55°	89.8	89.4	89.8	88.9	88.9	87.6	87.6	86.3	86.3	84.9	85.8
57.5°	65.8	66.7	65.8	66.3	67.2	65.8	65.4	64.0	64.9	64.0	64.5
60°	51.1	51.1	51.1	50.7	50.7	50.2	50.2	49.8	49.8	48.9	49.8
62.5°	37.8	38.2	38.2	38.2	38.7	38.2	37.8	38.2	37.8	37.8	38.2
65°	24.9	25.3	25.3	24.9	25.8	24.9	25.3	25.8	26.2	25.8	26.2
67.5°	16.9	16.9	17.4	17.8	17.4	17.8	18.2	17.8	18.2	19.1	18.2
70°	12.4	12.9	12.9	12.4	12.0	12.4	12.0	13.3	13.3	13.3	14.2
72.5°	8.0	8.0	7.6	7.6	7.6	7.6	7.6	8.9	8.0	7.6	8.5
75°	4.4	4.9	4.9	3.6	4.0	4.9	3.6	4.0	5.3	4.4	5.3
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.6	3.1	3.1	3.1	3.6
80°	2.2	1.8	1.8	1.3	1.8	1.8	1.8	2.7	2.2	2.2	2.7
82.5°	0.9	0.9	0.4	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	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°	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7
2.5°	909.8	909.8	909.4	908.5	906.7	906.7	906.2	904.9	904.0	903.6	903.6
5°	905.3	903.6	901.8	896.9	896.9	896.0	893.4	891.6	890.7	888.4	887.6
7.5°	901.4	896.0	892.9	889.8	885.8	884.0	880.9	879.6	876.4	874.2	872.9
10°	891.6	888.0	884.0	879.1	876.0	872.5	868.9	866.2	862.2	860.0	858.2
12.5°	884.9	879.6	876.0	870.7	865.3	862.2	857.3	854.2	850.2	845.8	843.1
15°	878.7	872.9	868.0	862.2	856.4	852.9	847.1	843.6	837.8	833.3	830.2
17.5°	869.3	864.4	859.1	852.0	846.7	842.2	836.0	831.5	826.2	820.4	817.3
20°	859.5	853.8	848.4	841.3	836.0	830.6	824.4	819.5	813.3	808.0	804.4
22.5°	846.7	840.0	835.5	828.4	822.2	816.4	810.6	804.9	799.1	794.6	790.6
25°	828.0	820.9	816.0	810.2	804.4	800.0	792.9	789.3	783.5	779.5	775.5
27.5°	801.3	796.0	791.5	785.7	780.8	777.3	772.0	768.4	763.5	759.9	756.8
30°	762.2	757.7	753.7	747.9	744.4	741.3	736.4	733.3	729.7	725.7	724.8
32.5°	709.7	706.1	702.1	698.1	695.5	693.7	689.7	687.9	684.4	682.1	679.9
35°	630.5	627.4	625.2	623.4	622.5	623.0	622.1	623.9	624.8	624.3	624.8
37.5°	526.9	525.2	526.0	527.4	531.8	537.6	542.9	550.9	556.3	561.6	566.5
40°	411.3	412.7	416.2	424.2	435.8	448.7	460.7	475.8	490.9	501.6	511.4
42.5°	310.4	314.4	323.3	334.8	352.2	371.3	390.0	412.2	430.5	448.2	460.7
45°	233.5	238.8	250.3	266.4	285.5	307.7	331.3	356.2	378.0	396.2	410.0
47.5°	181.9	186.8	198.3	215.2	238.8	261.9	286.4	312.2	334.8	352.6	364.6
50°	143.6	149.8	160.1	177.9	201.4	225.9	251.2	276.6	297.9	313.1	323.7
52.5°	112.9	118.7	128.5	147.2	171.2	195.7	219.2	244.1	262.8	277.5	284.6
55°	87.6	92.9	103.2	118.7	141.4	165.4	189.0	210.3	227.7	238.3	245.0
57.5°	66.7	70.7	77.8	93.4	113.8	136.1	156.1	177.4	190.8	198.3	202.8
60°	50.7	53.8	61.4	73.4	92.0	111.2	128.1	144.1	154.8	161.0	165.4
62.5°	38.2	41.8	47.1	57.4	71.6	87.2	101.4	113.4	122.3	126.3	129.4
65°	26.2	28.9	32.9	40.9	52.9	64.0	75.2	84.0	89.8	94.3	96.1
67.5°	19.6	21.3	23.6	29.8	38.2	47.1	54.7	60.9	67.2	68.9	72.0
70°	14.7	16.0	18.2	22.7	27.6	33.8	40.0	43.6	48.0	51.1	52.0
72.5°	9.3	9.8	12.0	14.7	18.7	22.7	26.7	29.8	32.5	34.2	35.1
75°	5.3	8.0	8.0	10.7	13.3	15.1	17.8	20.0	21.3	22.7	22.7
77.5°	3.6	4.9	5.3	6.7	8.0	10.2	12.4	13.8	15.1	15.6	15.6
80°	3.1	3.6	3.6	4.9	5.8	7.6	8.9	9.3	10.2	10.7	11.6
82.5°	1.3	1.8	2.2	3.6	4.0	4.0	5.3	5.8	6.7	7.1	7.1
85°	0.4	0.9	0.9	1.3	2.2	2.7	3.1	3.6	4.0	4.0	4.4
87.5°	0.4	0.4	0.0	0.4	0.9	0.9	1.8	1.8	1.8	2.7	2.7
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: P244537

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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	910.7	910.7	910.7	910.7	910.7	910.7	910.7
2.5°	902.7	903.1	901.4	900.9	900.0	900.5	901.4
5°	886.2	886.7	884.9	883.1	883.1	882.7	883.1
7.5°	870.7	871.1	868.4	867.5	865.8	866.2	866.2
10°	855.1	855.1	851.1	850.7	849.3	848.9	848.9
12.5°	840.0	838.6	835.5	833.8	834.7	832.0	832.0
15°	826.6	824.4	820.4	819.1	816.9	816.0	816.0
17.5°	812.9	811.1	807.5	804.9	802.2	801.7	802.2
20°	799.5	797.7	793.3	791.5	789.3	789.3	788.4
22.5°	786.2	784.4	780.4	779.1	776.0	776.0	776.4
25°	772.4	771.1	766.6	765.7	765.3	763.5	764.4
27.5°	753.7	752.8	749.3	747.9	746.2	745.7	746.6
30°	719.5	718.1	715.5	714.1	711.0	711.5	712.4
32.5°	676.8	675.0	671.4	670.1	667.5	666.6	667.0
35°	623.4	622.1	619.0	619.0	616.3	615.4	616.3
37.5°	569.2	570.5	569.2	570.5	569.2	568.7	569.2
40°	518.0	522.9	523.8	528.7	526.9	529.6	529.2
42.5°	469.1	477.1	480.3	484.2	483.4	485.1	486.5
45°	419.8	426.4	429.6	432.2	432.7	433.6	434.0
47.5°	373.1	378.4	378.9	382.0	381.5	381.5	382.9
50°	329.5	333.1	333.9	336.2	334.4	333.5	333.9
52.5°	289.0	292.6	291.7	292.6	290.4	289.5	289.9
55°	247.7	249.5	249.5	249.5	246.8	246.8	246.8
57.5°	205.4	205.9	205.0	205.4	205.0	202.3	201.9
60°	166.8	166.8	166.3	166.8	165.4	164.1	164.1
62.5°	130.3	131.2	133.0	131.2	130.3	131.2	129.8
65°	97.4	99.2	98.7	99.6	99.2	99.2	98.3
67.5°	73.4	73.8	74.3	74.7	74.7	74.7	74.7
70°	53.8	55.1	54.7	54.7	54.7	54.7	57.4
72.5°	36.0	37.8	37.4	38.2	38.2	39.1	38.2
75°	24.5	26.2	25.3	26.7	26.2	25.3	27.6
77.5°	16.5	17.4	17.8	18.2	17.8	17.4	17.8
80°	11.6	12.4	12.0	12.4	12.4	12.4	12.9
82.5°	7.1	8.5	8.0	8.5	8.0	8.5	8.5
85°	4.9	5.3	4.4	5.3	4.9	4.9	5.8
87.5°	3.1	2.7	2.7	3.1	2.7	3.1	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)