

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: P245383

Luminaire Tested: **LSR8B15D010 EC8B15827 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15827 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1477.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

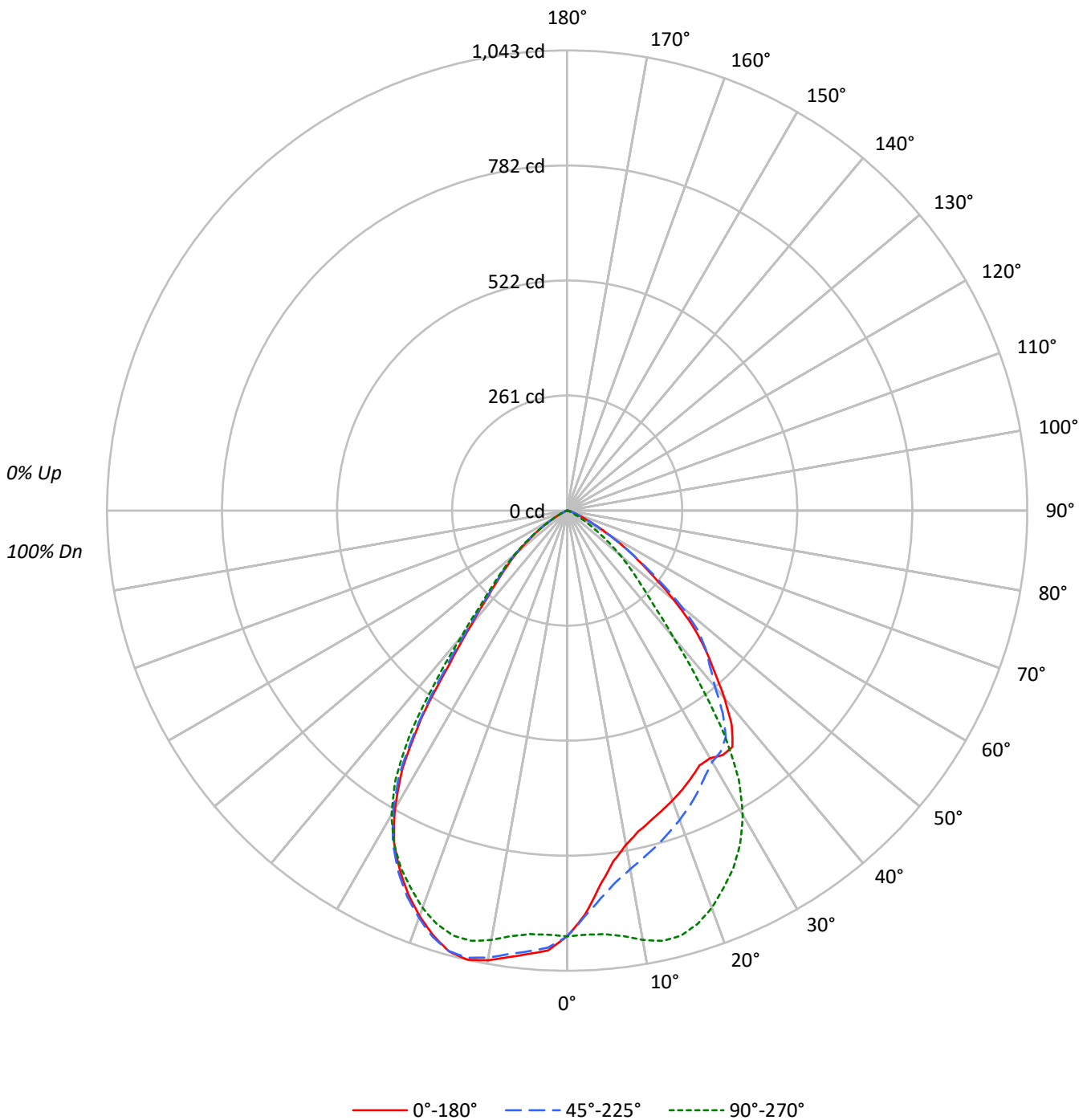
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29754	29754	29754
5°	26398	29827	31227
10°	24070	30936	32411
15°	23260	31838	33029
20°	22928	31447	32097
25°	22704	30363	30554
30°	23073	28336	27812
35°	24593	23449	21751
40°	22289	15011	13594
45°	19236	10270	9563
50°	15179	7493	7052
55°	10537	4607	4333
60°	6710	2331	2078
65°	3349	927	700
70°	1848	460	252
75°	1334	334	119
80°	1083	231	53
85°	1168	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	6.1
10°-20°	259.8	17.6
20°-30°	377.0	25.5
30°-40°	371.3	25.1
40°-50°	232.8	15.8
50°-60°	112.3	7.6
60°-70°	27.2	1.8
70°-80°	5.5	0.4
80°-90°	1.3	0.1
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°	726.7	49.2
0°-40°	1098.0	74.3
0°-60°	1443.1	97.7
0°-90°	1477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1477.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	965	965	965	965	965	
5°	853	882	964	1003	1009	79
15°	729	786	997	1034	1035	206
25°	667	702	892	905	898	309
35°	653	627	623	587	578	395
45°	441	444	236	226	219	337
55°	196	202	86	85	81	180
65°	46	45	13	11	10	52
75°	11	10	3	1	1	13
85°	3	2	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9
2.5°	917.2	911.4	900.5	913.7	913.7	906.3	921.0	912.2	919.3	930.4	920.5
5°	852.8	848.0	838.9	852.8	854.6	847.8	865.5	858.9	869.3	883.0	881.7
7.5°	801.9	795.8	787.4	801.9	804.7	800.1	817.1	814.1	827.7	845.5	848.5
10°	768.7	762.3	755.0	768.2	770.2	767.1	784.4	782.6	796.1	816.6	824.7
12.5°	745.1	739.8	731.7	745.6	747.9	743.6	759.8	759.0	773.0	794.5	804.7
15°	728.6	722.3	714.9	726.8	729.9	725.1	740.5	739.0	753.2	774.5	785.9
17.5°	713.1	707.3	699.7	710.9	713.9	708.8	724.1	721.5	733.7	754.0	765.6
20°	698.7	692.4	685.5	696.9	698.7	692.9	708.1	704.8	715.7	734.4	745.9
22.5°	683.7	677.1	670.1	681.2	683.0	677.1	691.1	687.3	697.4	714.4	724.8
25°	667.3	661.2	654.1	664.5	666.0	659.7	674.4	669.5	678.4	693.4	702.0
27.5°	650.8	645.0	637.1	647.7	648.5	642.4	655.9	649.3	656.6	670.3	677.7
30°	648.0	641.4	633.3	641.9	642.2	634.3	647.0	639.1	643.2	653.3	657.6
32.5°	656.9	650.3	641.9	649.0	648.2	639.6	651.8	642.2	643.4	648.8	647.7
35°	653.3	645.5	635.6	643.2	643.2	632.8	645.0	633.5	632.3	633.0	626.7
37.5°	613.0	606.9	597.5	604.9	604.1	596.3	605.7	596.3	592.0	590.2	578.8
40°	553.7	546.3	539.2	547.1	547.9	539.5	551.7	541.0	539.7	534.7	521.2
42.5°	493.6	491.1	484.2	490.8	494.4	487.3	497.4	492.3	493.1	491.8	479.2
45°	441.1	436.8	431.7	439.3	441.6	438.1	448.2	445.2	448.2	454.6	444.2
47.5°	384.6	380.3	374.7	382.8	386.9	380.3	388.9	387.9	392.4	403.3	402.3
50°	316.4	313.3	312.3	313.3	315.9	312.8	318.9	319.2	322.2	337.2	338.2
52.5°	250.5	249.7	246.2	249.5	249.5	244.6	250.7	247.9	251.0	261.1	267.7
55°	196.0	195.2	192.9	196.0	192.7	190.9	192.7	189.9	187.6	195.5	202.3
57.5°	152.6	150.1	147.3	148.6	148.3	144.5	146.5	143.2	141.5	144.3	150.3
60°	108.8	108.0	105.5	106.7	107.7	105.0	107.0	105.5	102.4	104.7	105.0
62.5°	72.3	72.8	71.2	71.5	70.7	70.2	71.5	72.3	71.5	70.5	70.7
65°	45.9	45.6	45.4	45.6	46.1	45.1	45.9	46.4	45.6	45.6	45.4
67.5°	30.4	29.7	28.9	29.4	29.9	29.2	29.9	29.7	29.9	29.7	28.9
70°	20.5	20.3	20.0	20.3	20.3	19.8	20.3	20.0	20.3	20.0	19.3
72.5°	15.0	15.0	14.7	15.0	15.0	14.5	14.7	14.2	14.5	14.2	13.7
75°	11.2	11.2	10.9	11.2	10.9	10.6	10.9	10.6	10.1	10.1	9.6
77.5°	8.1	8.1	8.1	8.1	8.1	7.9	7.9	7.6	7.4	7.1	7.1
80°	6.1	5.8	5.8	5.8	5.8	5.6	5.8	5.6	5.3	5.1	4.8
82.5°	4.3	4.6	4.3	4.3	4.3	4.1	4.3	4.1	4.1	3.8	3.3
85°	3.3	3.3	3.3	3.3	3.3	3.0	3.0	3.0	2.8	2.8	2.5
87.5°	1.8	1.8	1.8	2.0	1.8	1.8	1.8	1.5	1.5	1.3	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9
2.5°	933.7	935.0	932.2	936.5	953.2	939.8	945.4	947.1	959.8	962.1	960.6
5°	898.2	903.8	907.3	917.0	935.5	925.9	935.7	942.1	958.3	963.6	964.9
7.5°	870.3	882.0	890.6	906.3	928.1	920.8	935.7	946.1	965.9	972.8	976.0
10°	849.5	867.3	882.2	903.8	928.4	923.6	943.1	957.8	979.9	988.0	992.0
12.5°	833.8	855.4	875.4	902.8	929.4	927.1	950.7	967.4	990.8	998.9	1003.7
15°	816.6	841.4	864.8	895.4	924.1	923.6	948.9	966.7	990.5	997.3	1001.9
17.5°	796.1	822.7	848.3	881.5	909.9	910.4	936.0	953.5	976.8	982.4	985.4
20°	775.3	801.6	827.2	861.5	889.3	890.1	915.2	931.4	953.7	958.3	959.1
22.5°	753.2	777.8	803.4	837.4	864.2	864.8	889.6	904.8	923.8	926.1	928.1
25°	728.1	752.2	776.3	810.0	835.6	837.1	859.7	873.1	890.6	892.4	893.1
27.5°	702.0	721.8	744.8	773.7	799.6	798.6	819.9	835.1	850.8	849.8	849.5
30°	675.6	692.1	706.3	734.2	753.2	754.0	774.0	781.3	797.8	795.8	795.5
32.5°	657.1	661.4	665.2	679.4	697.4	691.1	704.8	713.9	725.3	724.6	724.8
35°	623.2	615.3	603.9	605.9	616.8	606.9	614.3	614.0	625.7	622.9	626.2
37.5°	565.1	542.8	517.4	503.0	505.0	492.6	490.1	496.1	500.2	492.3	495.1
40°	503.2	470.3	430.7	397.8	396.0	380.5	377.7	371.7	379.5	372.9	375.0
42.5°	457.6	414.0	362.0	322.0	313.3	300.4	292.8	291.8	294.1	289.5	288.3
45°	422.6	376.2	316.6	270.8	261.1	247.2	239.6	236.8	237.0	235.5	234.3
47.5°	381.5	334.9	274.6	227.7	216.8	203.6	196.0	194.2	195.2	193.2	191.7
50°	324.8	282.9	227.9	185.1	175.4	165.8	159.7	157.9	157.7	156.2	155.2
52.5°	263.7	228.9	181.3	145.5	136.9	127.5	123.2	120.9	121.2	119.7	118.1
55°	204.1	182.5	140.4	110.0	102.2	94.8	90.8	88.0	87.2	85.7	84.9
57.5°	151.9	137.4	105.2	79.4	74.8	67.7	63.6	60.3	59.8	59.1	58.8
60°	106.5	96.1	74.0	56.5	51.2	46.9	42.8	39.5	38.0	37.8	37.0
62.5°	69.0	62.6	48.7	37.8	33.7	30.7	26.6	24.3	23.3	22.3	22.6
65°	42.8	38.0	30.4	24.3	22.1	19.8	16.7	14.7	13.7	12.7	12.9
67.5°	26.6	23.8	19.3	15.7	14.2	12.4	10.1	8.6	7.9	7.1	6.6
70°	18.0	15.5	13.2	11.2	10.1	8.9	7.4	6.1	5.6	5.1	4.6
72.5°	12.7	11.4	9.6	8.4	7.6	6.6	5.6	4.8	4.3	3.8	3.3
75°	9.1	8.1	7.1	6.1	5.6	5.1	4.3	3.8	3.3	2.8	2.3
77.5°	6.6	5.8	5.1	4.6	4.3	3.5	3.0	2.8	2.5	2.0	1.5
80°	4.6	4.1	3.3	3.0	3.0	2.5	2.3	2.0	1.8	1.3	1.0
82.5°	3.0	2.8	2.5	2.3	2.0	1.8	1.8	1.3	1.0	0.8	0.5
85°	2.3	2.0	1.8	1.5	1.5	1.3	1.0	0.8	0.8	0.5	0.3
87.5°	1.3	1.3	1.0	0.8	0.8	0.5	0.5	0.3	0.3	0.3	0.3
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9
2.5°	973.5	974.3	978.6	975.3	983.7	989.7	986.7	993.5	991.3	990.8	998.6
5°	980.1	981.9	987.7	984.7	993.8	1000.4	997.3	1005.0	1002.7	1002.2	1010.3
7.5°	992.8	994.6	999.6	997.1	1006.7	1012.6	1008.8	1017.1	1014.1	1013.8	1021.7
10°	1008.8	1011.3	1015.6	1013.1	1021.9	1027.0	1023.2	1031.3	1028.5	1027.3	1035.9
12.5°	1020.7	1022.4	1026.8	1024.7	1033.3	1037.1	1033.9	1041.7	1038.2	1037.1	1044.8
15°	1017.9	1019.7	1023.2	1021.4	1029.5	1033.1	1028.8	1037.4	1033.9	1031.8	1038.7
17.5°	1000.1	1001.1	1003.7	1001.9	1010.5	1012.8	1008.0	1016.6	1013.3	1009.8	1016.4
20°	974.0	973.5	975.0	974.3	981.4	982.6	979.6	985.9	982.1	980.1	983.9
22.5°	941.6	941.1	942.1	940.0	947.1	947.9	943.3	951.0	947.1	943.3	949.7
25°	905.6	902.8	902.3	903.0	907.9	908.6	903.8	909.4	904.6	901.5	907.6
27.5°	861.2	857.7	856.9	857.7	862.5	858.9	854.9	858.9	854.1	851.3	855.1
30°	806.4	801.4	799.1	797.6	802.6	801.4	792.0	796.6	789.0	784.9	787.7
32.5°	732.7	729.9	723.8	720.2	725.1	715.4	709.6	709.6	706.6	699.7	701.2
35°	630.2	625.9	620.4	617.3	618.1	605.2	595.5	597.5	587.4	585.6	586.4
37.5°	500.7	493.6	491.6	485.2	486.8	475.3	462.2	462.4	457.1	451.5	449.7
40°	376.2	375.0	372.9	367.6	369.6	357.2	352.1	352.4	348.8	344.8	346.8
42.5°	290.8	286.7	285.5	283.7	284.2	282.2	275.6	276.3	273.3	272.3	271.3
45°	236.3	232.0	228.9	230.4	230.4	228.2	225.6	227.2	225.6	223.6	224.6
47.5°	194.7	190.6	189.1	188.9	190.6	189.1	186.6	187.1	186.8	186.1	185.6
50°	155.4	154.4	153.1	152.4	153.1	152.6	150.3	151.6	152.4	149.8	150.6
52.5°	118.4	118.4	118.1	116.4	117.9	116.4	116.1	116.6	115.9	114.8	114.6
55°	86.7	85.9	84.7	84.4	84.9	84.4	83.9	84.2	84.7	82.1	82.1
57.5°	59.3	58.8	58.1	58.1	59.1	57.8	57.0	58.1	57.0	56.0	56.0
60°	38.0	37.8	37.0	37.0	37.0	36.8	36.0	36.3	36.8	35.2	35.5
62.5°	22.8	22.1	21.8	21.5	21.8	21.5	21.5	21.3	21.0	21.0	20.3
65°	12.4	11.9	11.4	11.7	11.7	11.4	11.4	11.4	10.9	10.6	10.4
67.5°	6.3	5.8	5.8	5.6	5.6	5.6	5.6	5.3	5.3	5.3	5.1
70°	4.1	3.8	3.5	3.5	3.5	3.3	3.3	3.3	3.3	3.3	3.0
72.5°	2.8	2.5	2.3	2.3	2.3	2.0	2.0	2.0	2.0	1.8	1.8
75°	2.0	1.8	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.5
80°	0.8	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
82.5°	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	0.3	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9
2.5°	995.8	993.8	995.1	1004.4	1000.4	999.1	988.5	997.9
5°	1007.7	1006.2	1006.2	1016.9	1012.0	1011.0	1000.6	1008.8
7.5°	1018.9	1017.4	1017.6	1028.5	1024.7	1023.2	1012.8	1020.9
10°	1033.3	1032.3	1032.6	1043.0	1038.9	1037.4	1026.8	1035.1
12.5°	1042.0	1040.4	1040.4	1051.6	1047.0	1044.8	1034.6	1042.7
15°	1035.4	1033.1	1033.1	1044.2	1039.2	1035.9	1027.0	1034.6
17.5°	1012.8	1010.5	1010.5	1020.2	1016.4	1011.5	1002.4	1009.5
20°	981.4	978.6	977.8	989.0	983.7	979.3	971.2	978.1
22.5°	945.9	944.6	942.3	953.5	948.7	944.1	935.5	940.8
25°	903.3	901.3	899.0	909.9	905.1	900.5	893.7	898.0
27.5°	850.3	850.6	849.3	857.9	853.1	850.6	842.2	849.3
30°	786.2	783.4	782.4	792.5	787.9	784.6	774.2	781.1
32.5°	702.5	698.4	693.1	704.5	696.7	693.9	685.0	694.9
35°	580.8	579.5	574.7	584.4	580.1	575.0	569.4	577.8
37.5°	449.0	450.0	449.5	452.0	449.5	446.2	440.1	437.1
40°	342.8	340.2	338.2	342.8	337.4	337.4	333.9	337.7
42.5°	268.7	267.7	270.3	271.3	268.2	267.7	267.2	267.0
45°	221.8	221.8	222.3	223.4	222.3	221.8	220.3	219.3
47.5°	182.8	183.8	182.8	186.1	184.3	183.8	180.8	182.0
50°	148.1	146.8	148.1	149.1	149.3	147.8	146.3	147.0
52.5°	114.8	112.8	112.3	113.8	112.8	112.8	111.8	111.5
55°	80.9	81.6	80.4	81.6	81.1	80.4	79.6	80.6
57.5°	54.8	55.0	54.5	55.3	54.0	54.3	54.0	53.7
60°	35.5	34.5	34.5	35.2	34.0	34.0	33.7	33.7
62.5°	20.3	20.0	20.0	19.8	19.5	19.5	19.5	19.0
65°	10.4	10.1	9.9	9.9	9.9	9.9	9.6	9.6
67.5°	5.1	4.8	4.8	5.1	4.8	4.8	4.8	4.8
70°	3.0	3.0	2.8	3.0	2.8	2.8	2.8	2.8
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)