

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: P245437

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245437  
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 EC8B15950 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1452.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

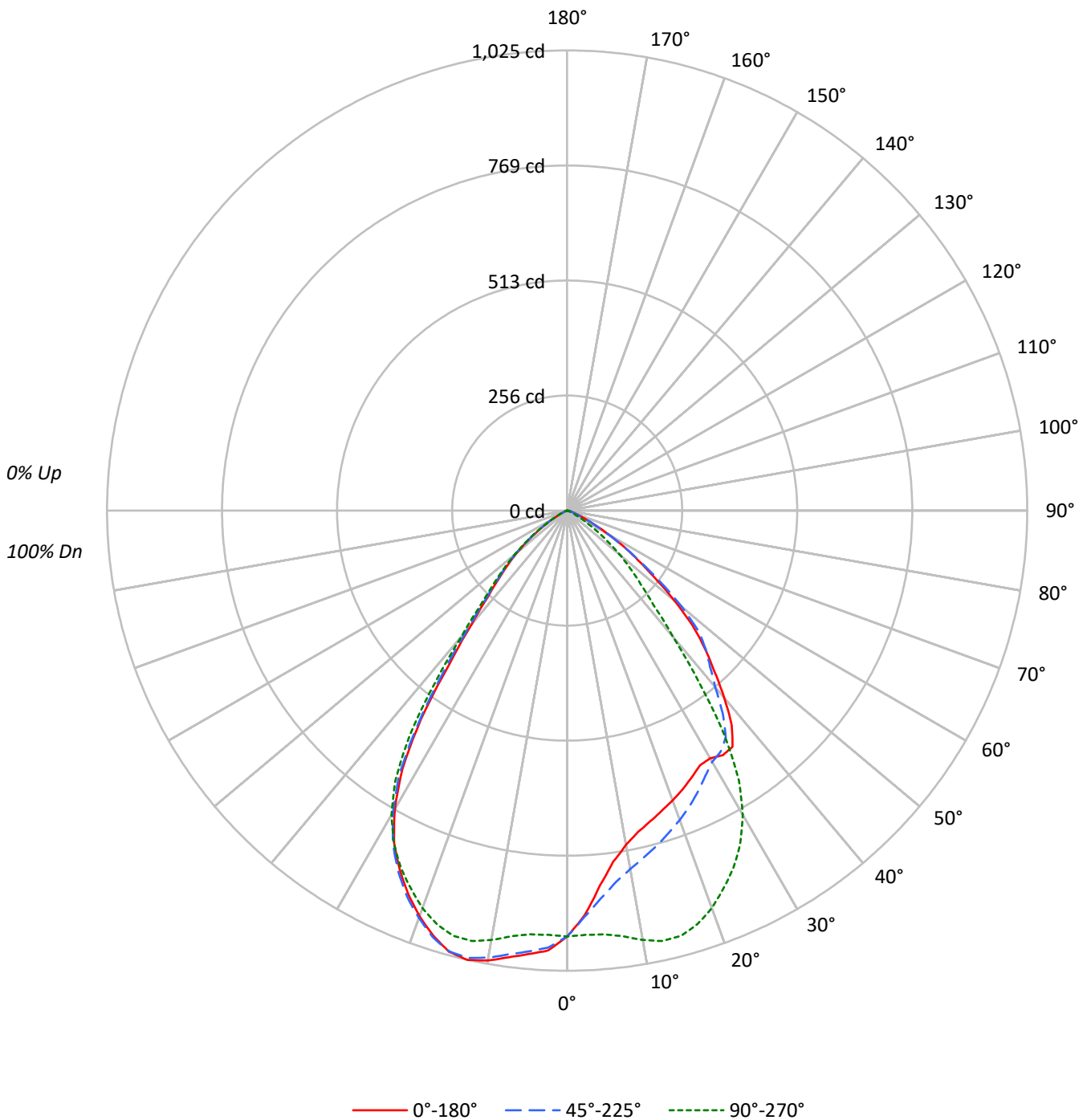
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	29251	29251	29251
5°	25952	29323	30697
10°	23662	30410	31863
15°	22867	31302	32470
20°	22541	30915	31552
25°	22320	29849	30036
30°	22681	27855	27342
35°	24179	23053	21382
40°	21910	14757	13364
45°	18913	10096	9402
50°	14920	7364	6937
55°	10360	4527	4263
60°	6593	2288	2041
65°	3291	912	693
70°	1821	451	243
75°	1311	322	119
80°	1065	213	36
85°	1132	177	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.4	6.1
10°-20°	255.4	17.6
20°-30°	370.6	25.5
30°-40°	365.0	25.1
40°-50°	228.8	15.8
50°-60°	110.4	7.6
60°-70°	26.7	1.8
70°-80°	5.4	0.4
80°-90°	1.2	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°	714.4	49.2
0°-40°	1079.4	74.3
0°-60°	1418.6	97.7
0°-90°	1452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1452.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	949	949	949	949	949	
5°	838	867	947	986	992	78
15°	716	773	980	1016	1017	203
25°	656	690	877	889	883	304
35°	642	616	612	578	568	389
45°	434	437	232	222	216	332
55°	193	199	84	83	79	177
65°	45	45	12	11	10	51
75°	11	10	3	1	1	12
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°	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6
2.5°	901.7	896.0	885.3	898.2	898.2	891.0	905.4	896.7	903.7	914.7	904.9
5°	838.4	833.7	824.7	838.4	840.1	833.4	850.9	844.4	854.6	868.1	866.8
7.5°	788.3	782.3	774.1	788.3	791.0	786.6	803.3	800.3	813.7	831.2	834.2
10°	755.7	749.4	742.2	755.2	757.2	754.2	771.1	769.4	782.6	802.8	810.7
12.5°	732.5	727.2	719.3	733.0	735.2	731.0	746.9	746.2	759.9	781.1	791.0
15°	716.3	710.1	702.8	714.5	717.5	712.8	728.0	726.5	740.5	761.4	772.6
17.5°	701.1	695.3	687.9	698.8	701.8	696.8	711.8	709.3	721.3	741.2	752.7
20°	686.9	680.6	673.9	685.1	686.9	681.1	696.1	692.9	703.6	722.0	733.2
22.5°	672.2	665.7	658.7	669.7	671.4	665.7	679.4	675.7	685.6	702.3	712.5
25°	656.0	650.0	643.0	653.2	654.7	648.5	662.9	658.2	666.9	681.6	690.1
27.5°	639.8	634.0	626.3	636.8	637.5	631.5	644.8	638.3	645.5	659.0	666.2
30°	637.0	630.5	622.6	631.0	631.3	623.6	636.0	628.3	632.3	642.3	646.5
32.5°	645.8	639.3	631.0	638.0	637.3	628.8	640.8	631.3	632.5	637.8	636.8
35°	642.3	634.5	624.8	632.3	632.3	622.1	634.0	622.8	621.6	622.3	616.1
37.5°	602.6	596.7	587.4	594.7	593.9	586.2	595.4	586.2	581.9	580.2	569.0
40°	544.3	537.1	530.1	537.8	538.6	530.4	542.3	531.9	530.6	525.6	512.4
42.5°	485.2	482.8	476.0	482.5	486.0	479.0	489.0	484.0	484.7	483.5	471.0
45°	433.7	429.4	424.4	431.9	434.2	430.7	440.6	437.6	440.6	446.9	436.6
47.5°	378.1	373.8	368.4	376.3	380.3	373.8	382.3	381.3	385.8	396.5	395.5
50°	311.0	308.0	307.0	308.0	310.5	307.5	313.5	313.8	316.8	331.5	332.5
52.5°	246.2	245.5	242.0	245.2	245.2	240.5	246.5	243.7	246.7	256.7	263.2
55°	192.7	191.9	189.7	192.7	189.4	187.7	189.4	186.7	184.4	192.2	198.9
57.5°	150.0	147.5	144.8	146.0	145.8	142.1	144.1	140.8	139.1	141.8	147.8
60°	106.9	106.2	103.7	104.9	105.9	103.2	105.2	103.7	100.7	102.9	103.2
62.5°	71.0	71.5	70.0	70.3	69.5	69.0	70.3	71.0	70.3	69.3	69.5
65°	45.1	44.9	44.6	44.9	45.4	44.4	45.1	45.6	44.9	44.9	44.6
67.5°	29.9	29.2	28.4	28.9	29.4	28.7	29.4	29.2	29.4	29.2	28.4
70°	20.2	19.9	19.7	19.9	19.9	19.4	19.9	19.7	19.9	19.7	18.9
72.5°	14.7	14.7	14.5	14.7	14.7	14.2	14.5	14.0	14.2	14.0	13.5
75°	11.0	11.0	10.7	11.0	10.7	10.5	10.7	10.5	10.0	10.0	9.5
77.5°	8.0	8.0	8.0	8.0	8.0	7.7	7.7	7.5	7.2	7.0	7.0
80°	6.0	5.7	5.7	5.7	5.7	5.5	5.7	5.5	5.2	5.0	4.7
82.5°	4.2	4.5	4.2	4.2	4.2	4.0	4.2	4.0	4.0	3.7	3.2
85°	3.2	3.2	3.2	3.2	3.2	3.0	3.0	3.0	2.7	2.7	2.5
87.5°	1.7	1.7	1.7	2.0	1.7	1.7	1.7	1.5	1.5	1.2	1.2
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°	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6
2.5°	917.9	919.2	916.4	920.6	937.1	923.9	929.4	931.1	943.6	945.8	944.3
5°	883.0	888.5	892.0	901.5	919.7	910.2	919.9	926.1	942.1	947.3	948.6
7.5°	855.6	867.1	875.5	891.0	912.4	905.2	919.9	930.1	949.6	956.3	959.5
10°	835.2	852.6	867.3	888.5	912.7	907.9	927.1	941.6	963.3	971.2	975.2
12.5°	819.7	840.9	860.6	887.5	913.7	911.4	934.6	951.1	974.0	982.0	986.7
15°	802.8	827.2	850.1	880.3	908.4	907.9	932.9	950.3	973.7	980.5	984.9
17.5°	782.6	808.7	833.9	866.6	894.5	895.0	920.2	937.3	960.3	965.8	968.7
20°	762.1	788.1	813.2	846.9	874.3	875.0	899.7	915.7	937.6	942.1	942.8
22.5°	740.5	764.6	789.8	823.2	849.6	850.1	874.5	889.5	908.2	910.4	912.4
25°	715.8	739.5	763.1	796.3	821.5	823.0	845.1	858.3	875.5	877.3	878.0
27.5°	690.1	709.6	732.2	760.6	786.1	785.1	806.0	821.0	836.4	835.4	835.2
30°	664.2	680.4	694.3	721.8	740.5	741.2	760.9	768.1	784.3	782.3	782.1
32.5°	646.0	650.2	654.0	667.9	685.6	679.4	692.9	701.8	713.0	712.3	712.5
35°	612.6	604.9	593.7	595.7	606.4	596.7	603.9	603.6	615.1	612.4	615.6
37.5°	555.5	533.6	508.7	494.5	496.5	484.3	481.8	487.7	491.7	484.0	486.7
40°	494.7	462.3	423.4	391.0	389.3	374.1	371.3	365.4	373.1	366.6	368.6
42.5°	449.9	407.0	355.9	316.5	308.0	295.3	287.9	286.9	289.1	284.6	283.4
45°	415.5	369.9	311.3	266.2	256.7	243.0	235.5	232.8	233.0	231.5	230.3
47.5°	375.1	329.2	269.9	223.8	213.1	200.1	192.7	190.9	191.9	189.9	188.4
50°	319.3	278.1	224.1	181.9	172.5	163.0	157.0	155.3	155.0	153.5	152.5
52.5°	259.2	225.1	178.2	143.1	134.6	125.4	121.1	118.9	119.1	117.6	116.1
55°	200.6	179.4	138.1	108.2	100.4	93.2	89.2	86.5	85.7	84.2	83.5
57.5°	149.3	135.1	103.4	78.0	73.5	66.5	62.6	59.3	58.8	58.1	57.8
60°	104.7	94.5	72.8	55.6	50.3	46.1	42.1	38.9	37.4	37.1	36.4
62.5°	67.8	61.6	47.9	37.1	33.1	30.2	26.2	23.9	22.9	21.9	22.2
65°	42.1	37.4	29.9	23.9	21.7	19.4	16.4	14.5	13.5	12.5	12.7
67.5°	26.2	23.4	18.9	15.5	14.0	12.2	10.0	8.5	7.7	7.0	6.5
70°	17.7	15.2	13.0	11.0	10.0	8.7	7.2	6.0	5.5	5.0	4.5
72.5°	12.5	11.2	9.5	8.2	7.5	6.5	5.5	4.7	4.2	3.7	3.2
75°	9.0	8.0	7.0	6.0	5.5	5.0	4.2	3.7	3.2	2.7	2.2
77.5°	6.5	5.7	5.0	4.5	4.2	3.5	3.0	2.7	2.5	2.0	1.5
80°	4.5	4.0	3.2	3.0	3.0	2.5	2.2	2.0	1.7	1.2	1.0
82.5°	3.0	2.7	2.5	2.2	2.0	1.7	1.7	1.2	1.0	0.7	0.5
85°	2.2	2.0	1.7	1.5	1.5	1.2	1.0	0.7	0.7	0.5	0.2
87.5°	1.2	1.2	1.0	0.7	0.7	0.5	0.5	0.2	0.2	0.2	0.2
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°	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6
2.5°	957.0	957.8	962.0	958.8	967.0	973.0	970.0	976.7	974.5	974.0	981.7
5°	963.5	965.3	971.0	968.0	977.0	983.5	980.5	987.9	985.7	985.2	993.2
7.5°	976.0	977.7	982.7	980.2	989.7	995.4	991.7	999.9	996.9	996.7	1004.4
10°	991.7	994.2	998.4	995.9	1004.6	1009.6	1005.9	1013.9	1011.1	1009.9	1018.3
12.5°	1003.4	1005.1	1009.4	1007.4	1015.9	1019.6	1016.4	1024.1	1020.6	1019.6	1027.1
15°	1000.7	1002.4	1005.9	1004.1	1012.1	1015.6	1011.4	1019.8	1016.4	1014.4	1021.1
17.5°	983.2	984.2	986.7	984.9	993.4	995.7	990.9	999.4	996.2	992.7	999.2
20°	957.5	957.0	958.5	957.8	964.8	966.0	963.0	969.2	965.5	963.5	967.3
22.5°	925.6	925.1	926.1	924.1	931.1	931.9	927.4	934.9	931.1	927.4	933.6
25°	890.2	887.5	887.0	887.8	892.5	893.2	888.5	894.0	889.2	886.3	892.2
27.5°	846.6	843.1	842.4	843.1	847.9	844.4	840.4	844.4	839.6	836.9	840.6
30°	792.8	787.8	785.6	784.1	789.1	787.8	778.6	783.1	775.6	771.6	774.4
32.5°	720.3	717.5	711.5	708.1	712.8	703.3	697.6	697.6	694.6	687.9	689.4
35°	619.6	615.3	609.9	606.9	607.6	594.9	585.4	587.4	577.5	575.7	576.5
37.5°	492.2	485.2	483.3	477.0	478.5	467.3	454.3	454.6	449.4	443.9	442.1
40°	369.9	368.6	366.6	361.4	363.4	351.2	346.2	346.4	342.9	339.0	340.9
42.5°	285.9	281.9	280.6	278.9	279.4	277.4	270.9	271.7	268.7	267.7	266.7
45°	232.3	228.0	225.1	226.5	226.5	224.3	221.8	223.3	221.8	219.8	220.8
47.5°	191.4	187.4	185.9	185.7	187.4	185.9	183.4	183.9	183.7	182.9	182.4
50°	152.8	151.8	150.5	149.8	150.5	150.0	147.8	149.0	149.8	147.3	148.0
52.5°	116.4	116.4	116.1	114.4	115.9	114.4	114.1	114.6	113.9	112.9	112.7
55°	85.2	84.5	83.2	83.0	83.5	83.0	82.5	82.7	83.2	80.7	80.7
57.5°	58.3	57.8	57.1	57.1	58.1	56.8	56.1	57.1	56.1	55.1	55.1
60°	37.4	37.1	36.4	36.4	36.4	36.1	35.4	35.6	36.1	34.6	34.9
62.5°	22.4	21.7	21.4	21.2	21.4	21.2	21.2	20.9	20.7	20.7	19.9
65°	12.2	11.7	11.2	11.5	11.5	11.2	11.2	11.2	10.7	10.5	10.2
67.5°	6.2	5.7	5.7	5.5	5.5	5.5	5.5	5.2	5.2	5.2	5.0
70°	4.0	3.7	3.5	3.5	3.5	3.2	3.2	3.2	3.2	3.2	3.0
72.5°	2.7	2.5	2.2	2.2	2.2	2.0	2.0	2.0	2.0	1.7	1.7
75°	2.0	1.7	1.5	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.5
80°	0.7	0.7	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
82.5°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	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°	948.6	948.6	948.6	948.6	948.6	948.6	948.6	948.6
2.5°	979.0	977.0	978.2	987.4	983.5	982.2	971.7	981.0
5°	990.7	989.2	989.2	999.7	994.9	993.9	983.7	991.7
7.5°	1001.6	1000.2	1000.4	1011.1	1007.4	1005.9	995.7	1003.6
10°	1015.9	1014.9	1015.1	1025.3	1021.3	1019.8	1009.4	1017.6
12.5°	1024.3	1022.8	1022.8	1033.8	1029.3	1027.1	1017.1	1025.1
15°	1017.8	1015.6	1015.6	1026.6	1021.6	1018.3	1009.6	1017.1
17.5°	995.7	993.4	993.4	1002.9	999.2	994.4	985.4	992.4
20°	964.8	962.0	961.3	972.2	967.0	962.8	954.8	961.5
22.5°	929.9	928.6	926.4	937.3	932.6	928.1	919.7	924.9
25°	888.0	886.0	883.8	894.5	889.7	885.3	878.5	882.8
27.5°	835.9	836.2	834.9	843.4	838.7	836.2	827.9	834.9
30°	772.9	770.1	769.1	779.1	774.6	771.4	761.1	767.9
32.5°	690.6	686.6	681.4	692.6	684.9	682.1	673.4	683.1
35°	571.0	569.7	565.0	574.5	570.2	565.2	559.8	568.0
37.5°	441.4	442.4	441.9	444.4	441.9	438.6	432.7	429.7
40°	337.0	334.5	332.5	337.0	331.7	331.7	328.2	332.0
42.5°	264.2	263.2	265.7	266.7	263.7	263.2	262.7	262.4
45°	218.1	218.1	218.6	219.6	218.6	218.1	216.6	215.6
47.5°	179.7	180.7	179.7	182.9	181.2	180.7	177.7	178.9
50°	145.5	144.3	145.5	146.5	146.8	145.3	143.8	144.6
52.5°	112.9	110.9	110.4	111.9	110.9	110.9	109.9	109.7
55°	79.5	80.3	79.0	80.3	79.8	79.0	78.3	79.3
57.5°	53.8	54.1	53.6	54.3	53.1	53.3	53.1	52.8
60°	34.9	33.9	33.9	34.6	33.4	33.4	33.1	33.1
62.5°	19.9	19.7	19.7	19.4	19.2	19.2	19.2	18.7
65°	10.2	10.0	9.7	9.7	9.7	9.7	9.5	9.5
67.5°	5.0	4.7	4.7	5.0	4.7	4.7	4.7	4.7
70°	3.0	3.0	2.7	3.0	2.7	2.7	2.7	2.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)