

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: P245425

Luminaire Tested: **LSR8B15D010 EC8B15935 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245425
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 EC8B15935 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1342.0 lumens
Efficiency: N/A
Efficacy: 93.2 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

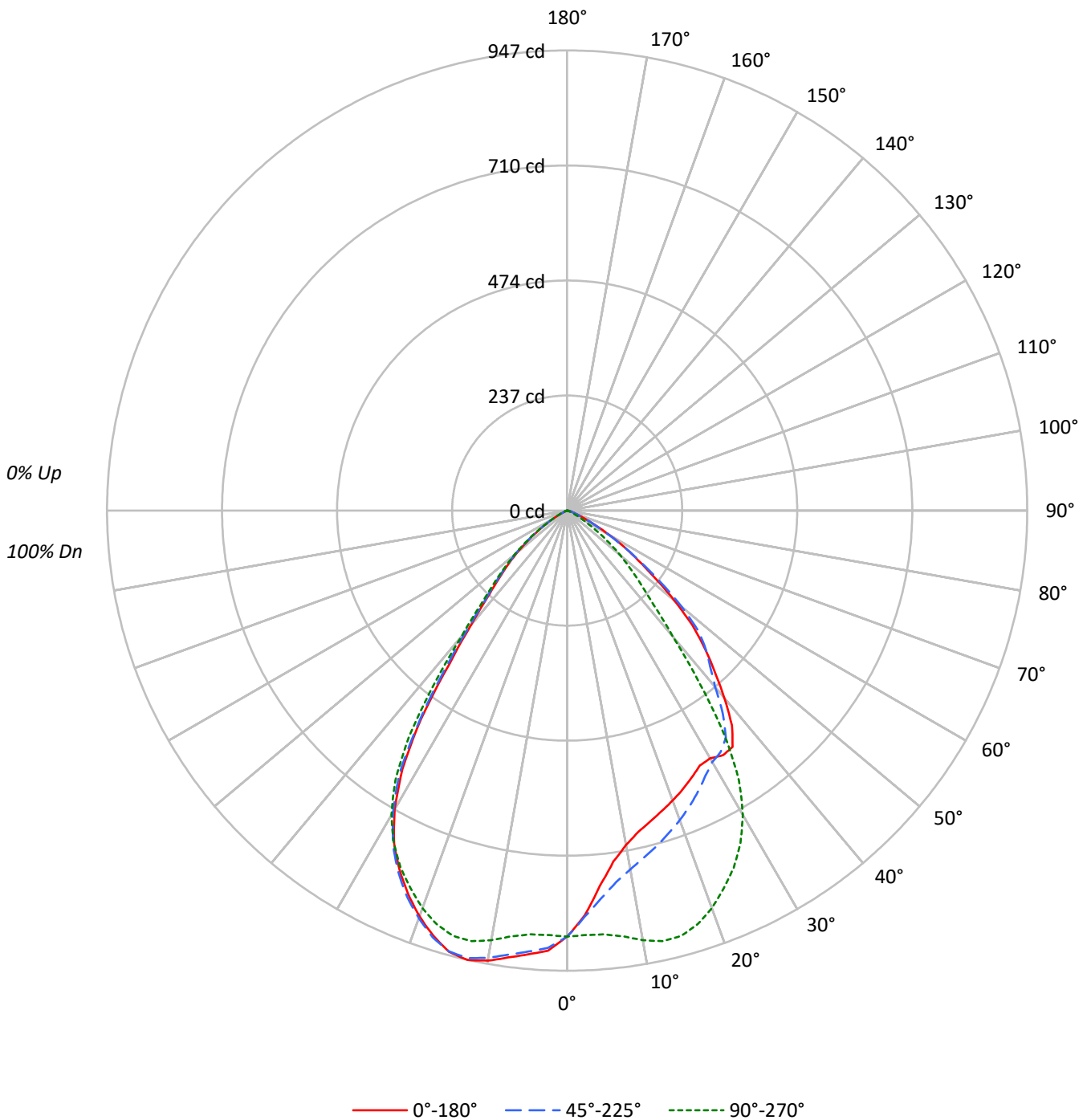
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	27034	27034	27034
5°	23986	27100	28373
10°	21868	28109	29449
15°	21134	28930	30009
20°	20831	28572	29163
25°	20629	27587	27760
30°	20965	25747	25270
35°	22346	21307	19763
40°	20252	13638	12350
45°	17479	9332	8691
50°	13792	6807	6409
55°	9575	4188	3941
60°	6093	2115	1887
65°	3043	839	642
70°	1686	415	225
75°	1203	298	107
80°	977	213	36
85°	1061	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	6.1
10°-20°	236.0	17.6
20°-30°	342.5	25.5
30°-40°	337.4	25.1
40°-50°	211.5	15.8
50°-60°	102.0	7.6
60°-70°	24.7	1.8
70°-80°	5.0	0.4
80°-90°	1.1	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°	660.3	49.2
0°-40°	997.6	74.3
0°-60°	1311.2	97.7
0°-90°	1342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1342.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	877	877	877	877	877	
5°	775	801	876	911	917	72
15°	662	714	906	939	940	187
25°	606	638	811	822	816	281
35°	594	569	566	534	525	359
45°	401	404	214	205	199	306
55°	178	184	78	77	73	164
65°	42	41	12	10	9	48
75°	10	9	2	1	1	11
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°	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7
2.5°	833.4	828.1	818.2	830.2	830.2	823.5	836.9	828.8	835.2	845.4	836.4
5°	774.9	770.5	762.2	774.9	776.5	770.3	786.4	780.4	789.9	802.3	801.1
7.5°	728.6	723.1	715.5	728.6	731.1	727.0	742.4	739.6	752.1	768.2	771.0
10°	698.4	692.7	686.0	698.0	699.8	697.0	712.7	711.1	723.3	741.9	749.3
12.5°	677.0	672.2	664.8	677.5	679.5	675.6	690.4	689.7	702.3	721.9	731.1
15°	662.0	656.3	649.6	660.4	663.2	658.8	672.8	671.5	684.4	703.7	714.1
17.5°	648.0	642.7	635.8	645.9	648.7	644.1	657.9	655.6	666.6	685.1	695.6
20°	634.8	629.1	622.9	633.2	634.8	629.5	643.4	640.4	650.3	667.3	677.7
22.5°	621.2	615.3	608.8	618.9	620.6	615.3	627.9	624.5	633.7	649.1	658.6
25°	606.3	600.7	594.3	603.7	605.1	599.4	612.7	608.3	616.4	630.0	637.8
27.5°	591.3	586.0	578.9	588.5	589.2	583.7	595.9	589.9	596.6	609.0	615.7
30°	588.8	582.8	575.4	583.2	583.5	576.3	587.8	580.7	584.4	593.6	597.5
32.5°	596.8	590.8	583.2	589.7	589.0	581.2	592.2	583.5	584.6	589.5	588.5
35°	593.6	586.5	577.5	584.4	584.4	574.9	586.0	575.6	574.5	575.2	569.4
37.5°	557.0	551.5	542.9	549.6	548.9	541.8	550.3	541.8	537.9	536.2	525.9
40°	503.1	496.4	489.9	497.1	497.8	490.2	501.2	491.6	490.4	485.8	473.6
42.5°	448.5	446.2	440.0	446.0	449.2	442.7	451.9	447.3	448.0	446.9	435.4
45°	400.8	396.9	392.3	399.2	401.3	398.0	407.3	404.5	407.3	413.0	403.6
47.5°	349.4	345.5	340.5	347.8	351.5	345.5	353.4	352.4	356.6	366.5	365.6
50°	287.5	284.7	283.8	284.7	287.0	284.2	289.8	290.0	292.8	306.4	307.3
52.5°	227.6	226.9	223.7	226.7	226.7	222.3	227.8	225.3	228.0	237.3	243.2
55°	178.1	177.4	175.3	178.1	175.1	173.5	175.1	172.5	170.5	177.6	183.8
57.5°	138.7	136.4	133.8	135.0	134.8	131.3	133.1	130.1	128.5	131.1	136.6
60°	98.8	98.1	95.8	97.0	97.9	95.4	97.2	95.8	93.1	95.1	95.4
62.5°	65.6	66.1	64.7	65.0	64.3	63.8	65.0	65.6	65.0	64.0	64.3
65°	41.7	41.5	41.2	41.5	41.9	41.0	41.7	42.2	41.5	41.5	41.2
67.5°	27.6	27.0	26.3	26.7	27.2	26.5	27.2	27.0	27.2	27.0	26.3
70°	18.7	18.4	18.2	18.4	18.4	18.0	18.4	18.2	18.4	18.2	17.5
72.5°	13.6	13.6	13.4	13.6	13.6	13.1	13.4	12.9	13.1	12.9	12.4
75°	10.1	10.1	9.9	10.1	9.9	9.7	9.9	9.7	9.2	9.2	8.8
77.5°	7.4	7.4	7.4	7.4	7.4	7.1	7.1	6.9	6.7	6.4	6.4
80°	5.5	5.3	5.3	5.3	5.3	5.1	5.3	5.1	4.8	4.6	4.4
82.5°	3.9	4.1	3.9	3.9	3.9	3.7	3.9	3.7	3.7	3.5	3.0
85°	3.0	3.0	3.0	3.0	3.0	2.8	2.8	2.8	2.5	2.5	2.3
87.5°	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.4	1.4	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°	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7
2.5°	848.4	849.5	847.0	850.9	866.1	853.9	859.0	860.6	872.1	874.2	872.8
5°	816.1	821.2	824.4	833.2	850.0	841.2	850.2	856.0	870.7	875.5	876.7
7.5°	790.8	801.4	809.2	823.5	843.3	836.6	850.2	859.7	877.6	883.8	886.8
10°	771.9	788.0	801.6	821.2	843.5	839.2	856.9	870.3	890.3	897.7	901.3
12.5°	757.6	777.2	795.4	820.3	844.5	842.4	863.8	879.0	900.2	907.6	911.9
15°	741.9	764.5	785.7	813.6	839.6	839.2	862.2	878.3	900.0	906.2	910.3
17.5°	723.3	747.5	770.7	800.9	826.7	827.2	850.4	866.3	887.5	892.6	895.4
20°	704.4	728.4	751.6	782.7	808.1	808.7	831.6	846.3	866.6	870.7	871.4
22.5°	684.4	706.7	730.0	760.8	785.3	785.7	808.3	822.1	839.4	841.5	843.3
25°	661.6	683.4	705.3	736.0	759.2	760.6	781.1	793.3	809.2	810.8	811.5
27.5°	637.8	655.8	676.8	703.0	726.5	725.6	744.9	758.8	773.0	772.1	771.9
30°	613.9	628.8	641.7	667.1	684.4	685.1	703.2	709.9	724.9	723.1	722.8
32.5°	597.1	601.0	604.4	617.3	633.7	627.9	640.4	648.7	659.0	658.3	658.6
35°	566.2	559.1	548.7	550.5	560.4	551.5	558.1	557.9	568.5	566.0	569.0
37.5°	513.4	493.2	470.1	457.0	458.9	447.6	445.3	450.8	454.5	447.3	449.9
40°	457.2	427.3	391.4	361.4	359.8	345.8	343.2	337.7	344.8	338.8	340.7
42.5°	415.8	376.2	328.9	292.5	284.7	273.0	266.1	265.1	267.2	263.1	261.9
45°	384.0	341.8	287.7	246.0	237.3	224.6	217.7	215.1	215.4	214.0	212.8
47.5°	346.7	304.3	249.5	206.9	196.9	185.0	178.1	176.4	177.4	175.5	174.1
50°	295.1	257.1	207.1	168.2	159.4	150.6	145.1	143.5	143.3	141.9	141.0
52.5°	239.6	208.0	164.7	132.2	124.4	115.9	111.9	109.9	110.1	108.7	107.3
55°	185.4	165.8	127.6	100.0	92.8	86.1	82.5	79.9	79.2	77.9	77.2
57.5°	138.0	124.8	95.6	72.1	68.0	61.5	57.8	54.8	54.4	53.7	53.4
60°	96.7	87.3	67.3	51.4	46.5	42.6	38.9	35.9	34.6	34.3	33.6
62.5°	62.7	56.9	44.2	34.3	30.6	27.9	24.2	22.1	21.2	20.3	20.5
65°	38.9	34.6	27.6	22.1	20.0	18.0	15.2	13.4	12.4	11.5	11.7
67.5°	24.2	21.7	17.5	14.3	12.9	11.3	9.2	7.8	7.1	6.4	6.0
70°	16.4	14.1	12.0	10.1	9.2	8.1	6.7	5.5	5.1	4.6	4.1
72.5°	11.5	10.4	8.8	7.6	6.9	6.0	5.1	4.4	3.9	3.5	3.0
75°	8.3	7.4	6.4	5.5	5.1	4.6	3.9	3.5	3.0	2.5	2.1
77.5°	6.0	5.3	4.6	4.1	3.9	3.2	2.8	2.5	2.3	1.8	1.4
80°	4.1	3.7	3.0	2.8	2.8	2.3	2.1	1.8	1.6	1.2	0.9
82.5°	2.8	2.5	2.3	2.1	1.8	1.6	1.6	1.2	0.9	0.7	0.5
85°	2.1	1.8	1.6	1.4	1.4	1.2	0.9	0.7	0.7	0.5	0.2
87.5°	1.2	1.2	0.9	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°	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7
2.5°	884.5	885.2	889.1	886.1	893.7	899.3	896.5	902.7	900.7	900.2	907.3
5°	890.5	892.1	897.4	894.7	903.0	908.9	906.2	913.1	911.0	910.6	917.9
7.5°	902.0	903.7	908.3	906.0	914.7	920.0	916.6	924.2	921.4	921.2	928.3
10°	916.6	918.9	922.8	920.5	928.5	933.1	929.7	937.1	934.5	933.4	941.2
12.5°	927.4	929.0	932.9	931.1	938.9	942.4	939.4	946.5	943.3	942.4	949.3
15°	924.8	926.5	929.7	928.1	935.4	938.7	934.7	942.6	939.4	937.5	943.7
17.5°	908.7	909.6	911.9	910.3	918.2	920.2	915.9	923.7	920.7	917.5	923.5
20°	885.0	884.5	885.9	885.2	891.7	892.8	890.1	895.8	892.4	890.5	894.0
22.5°	855.5	855.0	856.0	854.1	860.6	861.3	857.1	864.0	860.6	857.1	862.9
25°	822.8	820.3	819.8	820.5	824.9	825.6	821.2	826.3	821.9	819.1	824.6
27.5°	782.5	779.3	778.6	779.3	783.6	780.4	776.7	780.4	776.0	773.5	777.0
30°	732.7	728.1	726.1	724.7	729.3	728.1	719.6	723.8	716.8	713.2	715.7
32.5°	665.7	663.2	657.6	654.4	658.8	650.0	644.7	644.7	642.0	635.8	637.1
35°	572.6	568.7	563.7	560.9	561.6	549.8	541.1	542.9	533.7	532.1	532.8
37.5°	454.9	448.5	446.6	440.9	442.3	431.9	419.9	420.2	415.3	410.2	408.6
40°	341.8	340.7	338.8	334.0	335.8	324.6	320.0	320.2	317.0	313.3	315.1
42.5°	264.2	260.5	259.4	257.8	258.2	256.4	250.4	251.1	248.3	247.4	246.5
45°	214.7	210.8	208.0	209.4	209.4	207.3	205.0	206.4	205.0	203.2	204.1
47.5°	176.9	173.2	171.8	171.6	173.2	171.8	169.5	170.0	169.8	169.1	168.6
50°	141.2	140.3	139.1	138.4	139.1	138.7	136.6	137.7	138.4	136.1	136.8
52.5°	107.6	107.6	107.3	105.7	107.1	105.7	105.5	106.0	105.3	104.3	104.1
55°	78.8	78.1	76.9	76.7	77.2	76.7	76.2	76.5	76.9	74.6	74.6
57.5°	53.9	53.4	52.7	52.7	53.7	52.5	51.8	52.7	51.8	50.9	50.9
60°	34.6	34.3	33.6	33.6	33.6	33.4	32.7	32.9	33.4	32.0	32.2
62.5°	20.7	20.0	19.8	19.6	19.8	19.6	19.6	19.3	19.1	19.1	18.4
65°	11.3	10.8	10.4	10.6	10.6	10.4	10.4	10.4	9.9	9.7	9.4
67.5°	5.8	5.3	5.3	5.1	5.1	5.1	5.1	4.8	4.8	4.8	4.6
70°	3.7	3.5	3.2	3.2	3.2	3.0	3.0	3.0	3.0	3.0	2.8
72.5°	2.5	2.3	2.1	2.1	2.1	1.8	1.8	1.8	1.8	1.6	1.6
75°	1.8	1.6	1.4	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	0.9	0.9	0.9	0.9	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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CATALOG NUMBER: LSR8B15D010 EC8B15935 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7
2.5°	904.8	903.0	904.1	912.6	908.9	907.8	898.1	906.6
5°	915.6	914.2	914.2	923.9	919.5	918.6	909.2	916.6
7.5°	925.8	924.4	924.6	934.5	931.1	929.7	920.2	927.6
10°	938.9	938.0	938.2	947.6	944.0	942.6	932.9	940.5
12.5°	946.7	945.3	945.3	955.5	951.3	949.3	940.0	947.4
15°	940.7	938.7	938.7	948.8	944.2	941.2	933.1	940.0
17.5°	920.2	918.2	918.2	926.9	923.5	919.1	910.8	917.2
20°	891.7	889.1	888.4	898.6	893.7	889.8	882.5	888.7
22.5°	859.4	858.3	856.2	866.3	862.0	857.8	850.0	854.8
25°	820.7	818.9	816.8	826.7	822.3	818.2	812.0	815.9
27.5°	772.6	772.8	771.7	779.5	775.1	772.8	765.2	771.7
30°	714.3	711.8	710.9	720.1	715.9	712.9	703.5	709.7
32.5°	638.3	634.6	629.8	640.1	633.0	630.5	622.4	631.4
35°	527.7	526.6	522.2	531.0	527.0	522.4	517.4	525.0
37.5°	407.9	408.9	408.4	410.7	408.4	405.4	399.9	397.1
40°	311.4	309.1	307.3	311.4	306.6	306.6	303.4	306.8
42.5°	244.2	243.2	245.6	246.5	243.7	243.2	242.8	242.6
45°	201.6	201.6	202.0	202.9	202.0	201.6	200.2	199.3
47.5°	166.1	167.0	166.1	169.1	167.5	167.0	164.2	165.4
50°	134.5	133.4	134.5	135.4	135.7	134.3	132.9	133.6
52.5°	104.3	102.5	102.0	103.4	102.5	102.5	101.6	101.4
55°	73.5	74.2	73.0	74.2	73.7	73.0	72.3	73.3
57.5°	49.8	50.0	49.5	50.2	49.1	49.3	49.1	48.8
60°	32.2	31.3	31.3	32.0	30.9	30.9	30.6	30.6
62.5°	18.4	18.2	18.2	18.0	17.7	17.7	17.7	17.3
65°	9.4	9.2	9.0	9.0	9.0	9.0	8.8	8.8
67.5°	4.6	4.4	4.4	4.6	4.4	4.4	4.4	4.4
70°	2.8	2.8	2.5	2.8	2.5	2.5	2.5	2.5
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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

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