

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: P245394

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245394
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: LSR8B10D010 EC8B10835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1162.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

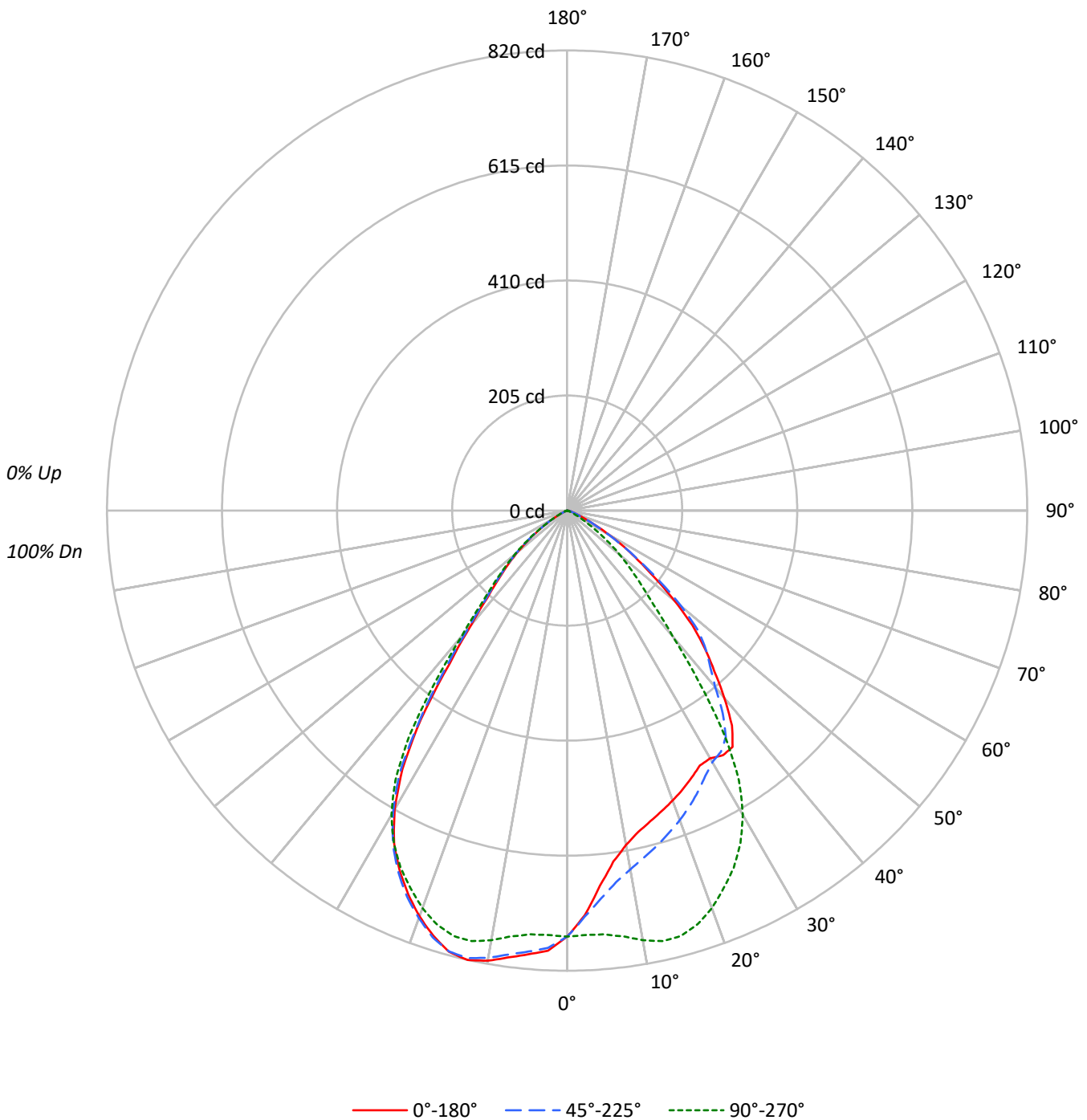
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23408	23408	23408
5°	20770	23466	24565
10°	18934	24339	25501
15°	18299	25048	25986
20°	18039	24739	25251
25°	17863	23888	24038
30°	18152	22293	21880
35°	19349	18449	17109
40°	17535	11811	10695
45°	15132	8081	7523
50°	11940	5896	5550
55°	8290	3624	3408
60°	5279	1832	1634
65°	2634	730	555
70°	1461	361	198
75°	1048	262	95
80°	852	178	36
85°	920	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	6.1
10°-20°	204.4	17.6
20°-30°	296.6	25.5
30°-40°	292.1	25.1
40°-50°	183.1	15.8
50°-60°	88.4	7.6
60°-70°	21.4	1.8
70°-80°	4.3	0.4
80°-90°	1.0	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°	571.7	49.2
0°-40°	863.8	74.3
0°-60°	1135.3	97.7
0°-90°	1162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	759	759	759	759	759	
5°	671	694	758	789	794	62
15°	573	618	785	813	814	162
25°	525	552	702	712	706	243
35°	514	493	490	462	454	311
45°	347	349	185	178	172	265
55°	154	159	67	67	63	142
65°	36	36	10	9	8	41
75°	9	8	2	1	1	10
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°	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1
2.5°	721.6	717.0	708.5	718.8	718.8	713.0	724.6	717.6	723.2	732.0	724.2
5°	671.0	667.2	660.0	671.0	672.3	667.0	680.9	675.7	683.9	694.7	693.7
7.5°	630.9	626.1	619.5	630.9	633.1	629.5	642.8	640.4	651.2	665.2	667.6
10°	604.7	599.7	594.0	604.3	605.9	603.5	617.1	615.7	626.3	642.4	648.8
12.5°	586.2	582.0	575.6	586.6	588.4	585.0	597.8	597.2	608.1	625.1	633.1
15°	573.2	568.2	562.5	571.8	574.2	570.4	582.6	581.4	592.6	609.3	618.3
17.5°	561.1	556.5	550.5	559.3	561.7	557.7	569.6	567.6	577.2	593.2	602.3
20°	549.7	544.7	539.3	548.3	549.7	545.1	557.1	554.5	563.1	577.8	586.8
22.5°	537.9	532.7	527.1	535.9	537.3	532.7	543.7	540.7	548.7	562.1	570.2
25°	525.0	520.2	514.6	522.8	524.0	519.0	530.5	526.8	533.7	545.5	552.3
27.5°	512.0	507.4	501.2	509.6	510.2	505.4	516.0	510.8	516.6	527.3	533.1
30°	509.8	504.6	498.2	505.0	505.2	499.0	509.0	502.8	506.0	514.0	517.4
32.5°	516.8	511.6	505.0	510.6	510.0	503.2	512.8	505.2	506.2	510.4	509.6
35°	514.0	507.8	500.0	506.0	506.0	497.8	507.4	498.4	497.4	498.0	493.0
37.5°	482.3	477.5	470.1	475.9	475.3	469.1	476.5	469.1	465.7	464.3	455.3
40°	435.6	429.8	424.2	430.4	431.0	424.4	434.0	425.6	424.6	420.6	410.1
42.5°	388.3	386.3	381.0	386.1	388.9	383.3	391.3	387.3	387.9	386.9	377.0
45°	347.0	343.7	339.7	345.6	347.4	344.7	352.6	350.2	352.6	357.6	349.4
47.5°	302.6	299.2	294.8	301.2	304.4	299.2	306.0	305.2	308.8	317.3	316.5
50°	248.9	246.5	245.7	246.5	248.5	246.1	250.9	251.1	253.5	265.3	266.1
52.5°	197.1	196.5	193.7	196.3	196.3	192.5	197.3	195.1	197.5	205.4	210.6
55°	154.2	153.6	151.8	154.2	151.6	150.2	151.6	149.4	147.6	153.8	159.2
57.5°	120.1	118.1	115.9	116.9	116.7	113.7	115.3	112.7	111.3	113.5	118.3
60°	85.6	85.0	83.0	84.0	84.8	82.6	84.2	83.0	80.6	82.4	82.6
62.5°	56.8	57.2	56.0	56.2	55.6	55.2	56.2	56.8	56.2	55.4	55.6
65°	36.1	35.9	35.7	35.9	36.3	35.5	36.1	36.5	35.9	35.9	35.7
67.5°	23.9	23.3	22.7	23.1	23.5	22.9	23.5	23.3	23.5	23.3	22.7
70°	16.2	16.0	15.8	16.0	16.0	15.6	16.0	15.8	16.0	15.8	15.2
72.5°	11.8	11.8	11.6	11.8	11.8	11.4	11.6	11.2	11.4	11.2	10.8
75°	8.8	8.8	8.6	8.8	8.6	8.4	8.6	8.4	8.0	8.0	7.6
77.5°	6.4	6.4	6.4	6.4	6.4	6.2	6.2	6.0	5.8	5.6	5.6
80°	4.8	4.6	4.6	4.6	4.6	4.4	4.6	4.4	4.2	4.0	3.8
82.5°	3.4	3.6	3.4	3.4	3.4	3.2	3.4	3.2	3.2	3.0	2.6
85°	2.6	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.2	2.2	2.0
87.5°	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.2	1.2	1.0	1.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1
2.5°	734.6	735.6	733.4	736.8	749.9	739.4	743.8	745.1	755.1	756.9	755.7
5°	706.7	711.0	713.8	721.4	736.0	728.4	736.2	741.2	753.9	758.1	759.1
7.5°	684.7	693.9	700.7	713.0	730.2	724.4	736.2	744.4	759.9	765.3	767.9
10°	668.4	682.3	694.1	711.0	730.4	726.6	742.0	753.5	770.9	777.3	780.5
12.5°	656.0	672.9	688.7	710.2	731.2	729.4	747.9	761.1	779.5	785.8	789.6
15°	642.4	662.0	680.3	704.5	727.0	726.6	746.5	760.5	779.3	784.6	788.2
17.5°	626.3	647.2	667.4	693.5	715.8	716.2	736.4	750.1	768.5	772.9	775.3
20°	609.9	630.7	650.8	677.7	699.7	700.3	720.0	732.8	750.3	753.9	754.5
22.5°	592.6	611.9	632.1	658.8	679.9	680.3	699.9	711.8	726.8	728.6	730.2
25°	572.8	591.8	610.7	637.2	657.4	658.6	676.3	686.9	700.7	702.1	702.7
27.5°	552.3	567.8	586.0	608.7	629.1	628.3	645.0	657.0	669.4	668.6	668.4
30°	531.5	544.5	555.7	577.6	592.6	593.2	608.9	614.7	627.7	626.1	625.9
32.5°	517.0	520.4	523.4	534.5	548.7	543.7	554.5	561.7	570.6	570.0	570.2
35°	490.3	484.1	475.1	476.7	485.3	477.5	483.3	483.1	492.2	490.1	492.6
37.5°	444.6	427.0	407.1	395.7	397.3	387.5	385.5	390.3	393.5	387.3	389.5
40°	395.9	370.0	338.9	312.9	311.5	299.4	297.2	292.4	298.6	293.4	295.0
42.5°	360.0	325.7	284.8	253.3	246.5	236.3	230.4	229.6	231.4	227.8	226.8
45°	332.5	296.0	249.1	213.0	205.4	194.5	188.5	186.3	186.5	185.3	184.3
47.5°	300.2	263.5	216.0	179.1	170.5	160.2	154.2	152.8	153.6	152.0	150.8
50°	255.5	222.6	179.3	145.6	138.0	130.4	125.7	124.3	124.1	122.9	122.1
52.5°	207.4	180.1	142.6	114.5	107.7	100.3	96.9	95.1	95.3	94.1	92.9
55°	160.6	143.6	110.5	86.6	80.4	74.6	71.4	69.2	68.6	67.4	66.8
57.5°	119.5	108.1	82.8	62.4	58.8	53.3	50.1	47.5	47.1	46.5	46.3
60°	83.8	75.6	58.2	44.5	40.3	36.9	33.7	31.1	29.9	29.7	29.1
62.5°	54.3	49.3	38.3	29.7	26.5	24.1	20.9	19.1	18.3	17.6	17.8
65°	33.7	29.9	23.9	19.1	17.4	15.6	13.2	11.6	10.8	10.0	10.2
67.5°	20.9	18.7	15.2	12.4	11.2	9.8	8.0	6.8	6.2	5.6	5.2
70°	14.2	12.2	10.4	8.8	8.0	7.0	5.8	4.8	4.4	4.0	3.6
72.5°	10.0	9.0	7.6	6.6	6.0	5.2	4.4	3.8	3.4	3.0	2.6
75°	7.2	6.4	5.6	4.8	4.4	4.0	3.4	3.0	2.6	2.2	1.8
77.5°	5.2	4.6	4.0	3.6	3.4	2.8	2.4	2.2	2.0	1.6	1.2
80°	3.6	3.2	2.6	2.4	2.4	2.0	1.8	1.6	1.4	1.0	0.8
82.5°	2.4	2.2	2.0	1.8	1.6	1.4	1.4	1.0	0.8	0.6	0.4
85°	1.8	1.6	1.4	1.2	1.2	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	0.4	0.4	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°	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1
2.5°	765.9	766.5	769.9	767.3	773.9	778.7	776.3	781.6	779.9	779.5	785.6
5°	771.1	772.5	777.1	774.7	781.8	787.0	784.6	790.6	788.8	788.4	794.8
7.5°	781.1	782.4	786.4	784.4	792.0	796.6	793.6	800.2	797.8	797.6	803.8
10°	793.6	795.6	799.0	797.0	804.0	808.0	805.0	811.4	809.2	808.2	815.0
12.5°	803.0	804.4	807.8	806.2	813.0	816.0	813.4	819.5	816.8	816.0	821.9
15°	800.8	802.2	805.0	803.6	810.0	812.8	809.4	816.2	813.4	811.8	817.2
17.5°	786.8	787.6	789.6	788.2	795.0	796.8	793.0	799.8	797.2	794.4	799.6
20°	766.3	765.9	767.1	766.5	772.1	773.1	770.7	775.7	772.7	771.1	774.1
22.5°	740.8	740.4	741.2	739.6	745.1	745.7	742.2	748.1	745.1	742.2	747.1
25°	712.4	710.2	709.8	710.4	714.2	714.8	711.0	715.4	711.6	709.2	714.0
27.5°	677.5	674.7	674.1	674.7	678.5	675.7	672.5	675.7	672.0	669.8	672.7
30°	634.5	630.5	628.7	627.5	631.5	630.5	623.1	626.7	620.7	617.5	619.7
32.5°	576.4	574.2	569.4	566.6	570.4	562.9	558.3	558.3	555.9	550.5	551.7
35°	495.8	492.4	488.1	485.7	486.3	476.1	468.5	470.1	462.1	460.7	461.3
37.5°	393.9	388.3	386.7	381.7	382.9	374.0	363.6	363.8	359.6	355.2	353.8
40°	296.0	295.0	293.4	289.2	290.8	281.0	277.0	277.2	274.4	271.3	272.8
42.5°	228.8	225.6	224.6	223.2	223.6	222.0	216.8	217.4	215.0	214.2	213.4
45°	185.9	182.5	180.1	181.3	181.3	179.5	177.5	178.7	177.5	175.9	176.7
47.5°	153.2	150.0	148.8	148.6	150.0	148.8	146.8	147.2	147.0	146.4	146.0
50°	122.3	121.5	120.5	119.9	120.5	120.1	118.3	119.3	119.9	117.9	118.5
52.5°	93.1	93.1	92.9	91.5	92.7	91.5	91.3	91.7	91.1	90.4	90.2
55°	68.2	67.6	66.6	66.4	66.8	66.4	66.0	66.2	66.6	64.6	64.6
57.5°	46.7	46.3	45.7	45.7	46.5	45.5	44.9	45.7	44.9	44.1	44.1
60°	29.9	29.7	29.1	29.1	29.1	28.9	28.3	28.5	28.9	27.7	27.9
62.5°	18.0	17.4	17.2	17.0	17.2	17.0	17.0	16.8	16.6	16.6	16.0
65°	9.8	9.4	9.0	9.2	9.2	9.0	9.0	9.0	8.6	8.4	8.2
67.5°	5.0	4.6	4.6	4.4	4.4	4.4	4.4	4.2	4.2	4.2	4.0
70°	3.2	3.0	2.8	2.8	2.8	2.6	2.6	2.6	2.6	2.6	2.4
72.5°	2.2	2.0	1.8	1.8	1.8	1.6	1.6	1.6	1.6	1.4	1.4
75°	1.6	1.4	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	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: LSR8B10D010 EC8B10835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1
2.5°	783.4	781.8	782.8	790.2	787.0	786.0	777.7	785.0
5°	792.8	791.6	791.6	800.0	796.2	795.4	787.2	793.6
7.5°	801.6	800.4	800.6	809.2	806.2	805.0	796.8	803.2
10°	813.0	812.2	812.4	820.5	817.4	816.2	807.8	814.4
12.5°	819.7	818.5	818.5	827.3	823.7	821.9	814.0	820.3
15°	814.6	812.8	812.8	821.5	817.6	815.0	808.0	814.0
17.5°	796.8	795.0	795.0	802.6	799.6	795.8	788.6	794.2
20°	772.1	769.9	769.3	778.1	773.9	770.5	764.1	769.5
22.5°	744.2	743.2	741.4	750.1	746.3	742.8	736.0	740.2
25°	710.6	709.0	707.3	715.8	712.0	708.5	703.1	706.5
27.5°	669.0	669.2	668.2	674.9	671.2	669.2	662.6	668.2
30°	618.5	616.3	615.5	623.5	619.9	617.3	609.1	614.5
32.5°	552.7	549.5	545.3	554.3	548.1	545.9	538.9	546.7
35°	456.9	455.9	452.2	459.7	456.3	452.4	448.0	454.5
37.5°	353.2	354.0	353.6	355.6	353.6	351.0	346.2	343.9
40°	269.7	267.7	266.1	269.7	265.5	265.5	262.7	265.7
42.5°	211.4	210.6	212.6	213.4	211.0	210.6	210.2	210.0
45°	174.5	174.5	174.9	175.7	174.9	174.5	173.3	172.5
47.5°	143.8	144.6	143.8	146.4	145.0	144.6	142.2	143.2
50°	116.5	115.5	116.5	117.3	117.5	116.3	115.1	115.7
52.5°	90.4	88.8	88.4	89.6	88.8	88.8	88.0	87.8
55°	63.6	64.2	63.2	64.2	63.8	63.2	62.6	63.4
57.5°	43.1	43.3	42.9	43.5	42.5	42.7	42.5	42.3
60°	27.9	27.1	27.1	27.7	26.7	26.7	26.5	26.5
62.5°	16.0	15.8	15.8	15.6	15.4	15.4	15.4	15.0
65°	8.2	8.0	7.8	7.8	7.8	7.8	7.6	7.6
67.5°	4.0	3.8	3.8	4.0	3.8	3.8	3.8	3.8
70°	2.4	2.4	2.2	2.4	2.2	2.2	2.2	2.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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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