

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: P246049

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15840 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1521.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

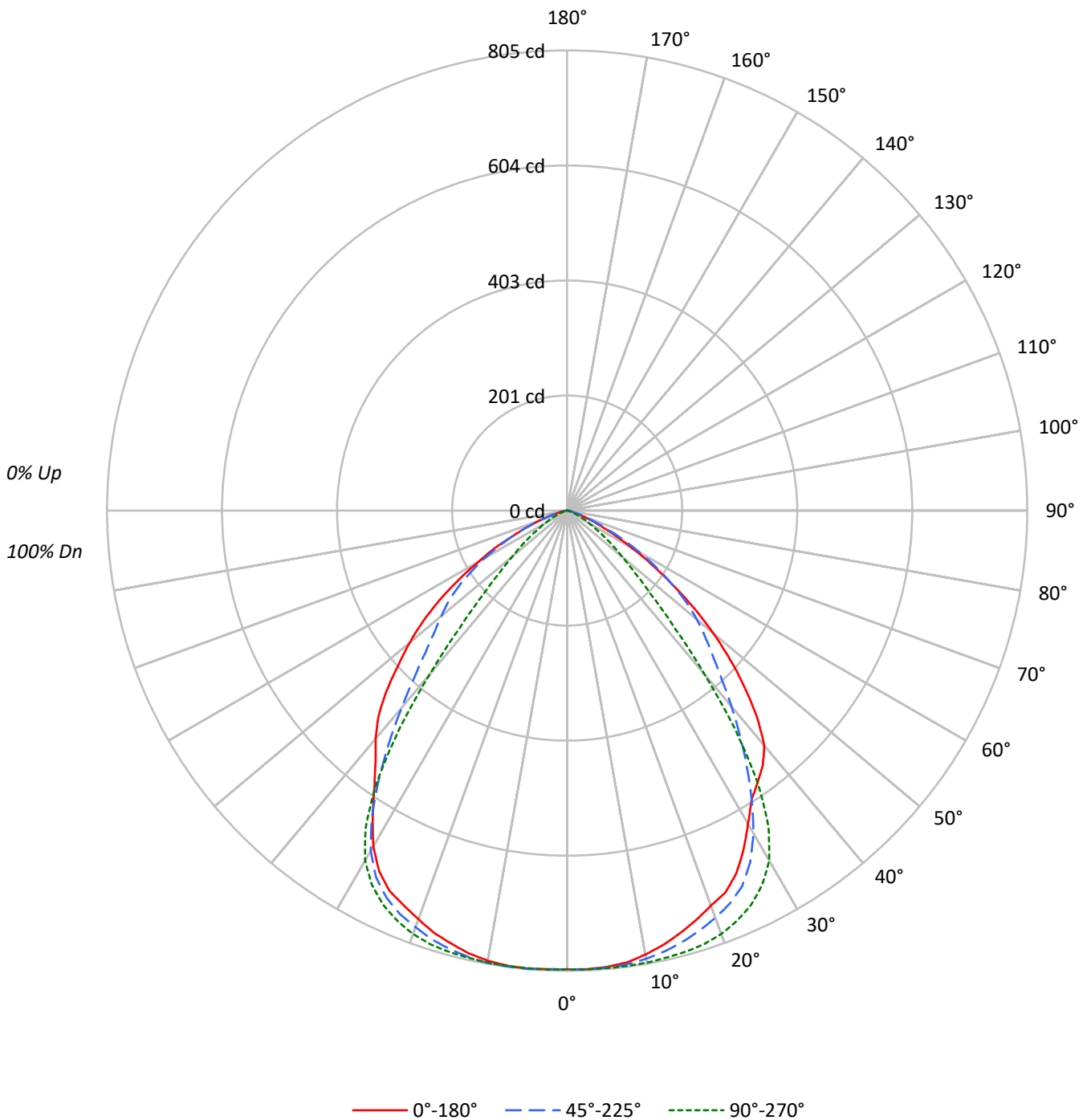
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24746	24746	24746
5°	24800	24869	24893
10°	24696	25140	25034
15°	24422	25511	25028
20°	24129	25868	24963
25°	23817	25899	24991
30°	22532	25170	24141
35°	21860	21875	22101
40°	21588	15051	20980
45°	19236	9036	19498
50°	15994	6016	17237
55°	11994	4145	14612
60°	8128	2763	11027
65°	4903	1795	7574
70°	2723	974	4661
75°	1227	405	2407
80°	1065	462	1687
85°	1203	601	1663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	5.0
10°-20°	222.4	14.6
20°-30°	337.6	22.2
30°-40°	354.6	23.3
40°-50°	265.8	17.5
50°-60°	170.6	11.2
60°-70°	73.0	4.8
70°-80°	17.2	1.1
80°-90°	3.2	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°	636.6	41.9
0°-40°	991.2	65.2
0°-60°	1427.6	93.9
0°-90°	1521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	802	802	802	802	802	
5°	801	802	803	805	804	76
15°	765	781	799	794	784	216
25°	700	724	761	747	734	320
35°	581	548	581	574	587	364
45°	441	360	207	350	447	338
55°	223	223	77	233	272	202
65°	67	79	25	102	104	72
75°	10	12	3	21	20	15
85°	3	2	2	3	5	4
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°	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5
2.5°	802.9	803.8	803.4	803.4	802.9	803.4	803.4	804.2	804.2	803.4	802.9
5°	801.2	802.1	802.1	801.2	801.2	803.4	802.1	802.9	802.9	802.5	802.5
7.5°	797.3	797.3	799.1	797.8	797.8	799.1	798.6	799.5	800.4	800.8	800.8
10°	788.7	789.6	790.0	790.0	790.5	791.7	792.6	794.3	795.2	796.0	796.5
12.5°	778.0	779.2	779.7	779.2	780.5	782.3	784.4	786.6	787.9	789.6	790.9
15°	765.0	765.0	765.9	767.2	768.1	770.6	772.8	775.4	778.8	781.0	783.1
17.5°	750.8	751.7	753.0	753.0	754.7	759.0	760.3	764.2	768.1	770.2	774.5
20°	735.3	736.2	737.5	738.3	740.5	743.9	746.5	750.0	754.3	758.1	762.4
22.5°	723.2	721.5	722.4	723.2	725.4	728.4	731.4	735.7	740.0	743.9	748.2
25°	700.0	700.4	701.7	702.6	705.2	707.7	711.2	716.4	720.2	724.5	729.3
27.5°	668.5	669.0	671.1	671.1	673.3	677.6	679.7	684.0	689.2	693.5	699.1
30°	632.8	633.6	633.6	635.4	636.7	638.8	641.0	645.3	647.9	651.7	659.5
32.5°	600.1	600.9	600.5	600.1	598.8	598.3	597.9	598.8	599.6	600.9	603.9
35°	580.7	578.5	576.8	573.8	570.3	566.0	562.1	557.0	552.2	548.4	544.1
37.5°	562.1	561.7	559.1	554.8	547.9	540.2	531.1	519.9	508.7	496.7	485.0
40°	536.3	535.0	532.9	526.8	519.1	509.6	497.5	483.7	465.6	447.1	428.2
42.5°	492.4	492.8	490.2	485.5	478.1	469.1	456.6	441.5	422.2	400.2	375.6
45°	441.1	441.1	440.2	436.4	431.2	423.9	414.4	401.9	383.0	360.5	334.3
47.5°	387.7	388.1	386.8	386.0	383.8	379.1	372.2	362.7	349.4	327.8	301.5
50°	333.4	333.4	335.6	335.1	335.1	333.4	330.4	324.8	313.2	295.9	271.4
52.5°	279.1	280.0	281.3	283.0	285.2	288.6	285.2	282.6	275.3	261.9	240.8
55°	223.1	224.0	226.1	229.2	231.8	235.2	236.1	236.1	232.2	223.1	207.2
57.5°	175.3	174.0	175.8	178.3	181.8	185.2	187.8	190.8	190.4	184.4	171.4
60°	131.8	132.2	133.5	136.1	138.7	141.7	145.2	147.8	149.0	146.0	137.8
62.5°	96.1	96.1	97.8	100.4	101.7	106.0	108.1	109.4	110.7	110.3	105.1
65°	67.2	68.1	68.9	70.2	71.5	74.1	75.4	78.0	78.8	79.3	75.4
67.5°	47.4	46.1	47.0	47.8	49.1	50.8	53.4	53.4	54.7	54.7	52.1
70°	30.2	30.2	30.6	31.9	32.7	33.2	34.0	34.9	36.2	35.8	35.8
72.5°	20.2	19.8	20.2	20.7	21.1	22.4	22.4	22.8	23.7	24.1	22.4
75°	10.3	10.8	11.6	11.2	12.5	11.6	12.1	13.4	12.9	12.1	12.1
77.5°	8.6	8.6	8.6	8.2	9.0	9.0	8.6	9.5	9.0	9.0	8.6
80°	6.0	6.5	6.0	5.6	6.0	5.6	5.6	5.6	5.6	5.6	5.2
82.5°	4.7	3.9	4.3	3.9	4.3	4.3	3.9	3.4	3.4	3.9	3.4
85°	3.4	2.6	3.0	3.0	2.6	2.6	2.6	2.6	2.6	2.2	2.2
87.5°	2.2	1.3	1.3	1.3	1.7	1.7	1.7	1.3	1.7	1.7	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5
2.5°	803.8	803.4	804.2	803.8	803.8	803.4	803.8	803.4	804.2	802.5	802.9
5°	803.8	802.9	803.4	803.8	804.2	803.4	803.4	803.4	804.2	803.4	803.8
7.5°	802.1	801.6	802.9	803.8	803.4	802.9	803.8	803.4	804.2	803.8	804.7
10°	798.6	799.1	799.9	801.2	801.6	802.1	802.9	802.9	804.2	802.5	803.4
12.5°	793.5	795.2	797.3	798.2	799.9	799.9	800.8	801.2	802.1	801.6	802.9
15°	787.0	789.2	791.7	793.9	796.0	797.3	798.6	799.1	800.4	799.1	799.5
17.5°	779.2	781.8	785.7	788.3	791.7	793.0	794.8	795.6	796.9	796.0	796.5
20°	768.5	771.5	775.8	779.7	781.8	784.8	787.0	788.3	789.2	788.3	788.7
22.5°	753.4	757.7	763.3	766.3	770.6	773.2	773.7	776.7	778.8	776.7	777.5
25°	735.7	740.0	744.4	750.8	754.7	757.7	760.7	761.2	763.3	762.9	762.4
27.5°	706.4	712.1	719.4	724.5	729.7	734.5	737.9	738.8	740.9	740.0	740.5
30°	666.4	672.4	679.3	687.5	694.8	699.6	703.9	706.9	709.0	707.7	707.3
32.5°	609.5	615.6	622.9	631.1	639.7	646.6	651.7	655.6	658.2	657.3	655.2
35°	544.5	546.2	550.9	557.4	564.7	572.1	576.8	581.1	584.1	585.0	585.0
37.5°	477.7	472.1	468.7	468.7	473.0	476.0	480.3	482.9	487.6	489.3	490.6
40°	413.1	400.2	388.1	379.1	373.0	372.6	372.6	373.9	378.2	383.8	389.0
42.5°	355.4	334.7	316.2	299.4	287.3	280.4	277.4	277.8	281.3	286.5	295.1
45°	309.3	283.4	260.2	239.9	223.6	212.8	207.6	207.2	209.8	215.8	225.3
47.5°	273.5	246.0	219.7	196.4	178.8	167.1	161.1	159.4	161.1	166.7	177.9
50°	243.8	215.4	188.2	164.1	145.2	133.1	127.5	125.4	127.5	132.2	143.4
52.5°	216.2	186.9	161.5	138.3	118.0	107.7	101.7	100.4	101.7	107.3	116.3
55°	184.4	159.4	134.4	111.1	93.5	83.1	78.4	77.1	78.4	83.6	93.0
57.5°	152.9	131.4	109.4	88.3	73.2	64.2	59.9	58.1	61.2	64.6	75.8
60°	123.6	106.4	87.9	69.4	56.9	48.7	45.2	44.8	45.7	50.0	57.7
62.5°	96.9	82.7	68.1	53.0	42.6	39.2	34.9	34.5	35.3	37.9	43.9
65°	69.8	60.7	49.5	38.8	30.6	25.8	24.1	24.6	25.4	27.1	32.7
67.5°	48.7	42.2	34.5	27.1	21.1	19.0	17.2	16.8	17.2	20.2	23.3
70°	32.7	28.9	23.3	20.7	14.7	11.6	12.1	10.8	12.5	12.5	15.1
72.5°	21.5	19.0	15.5	12.1	10.3	8.2	8.2	7.8	8.6	9.0	11.2
75°	11.2	8.6	8.6	6.0	4.3	2.2	3.9	3.4	3.0	3.4	4.3
77.5°	7.8	6.5	6.0	4.7	4.3	3.4	3.4	3.4	3.4	3.9	4.3
80°	4.7	4.7	3.4	3.0	2.6	2.2	2.6	2.6	2.6	2.6	3.0
82.5°	3.0	2.6	2.6	2.2	2.2	1.7	1.7	1.7	1.7	1.7	2.6
85°	2.6	1.7	1.7	1.3	1.7	3.0	1.3	1.7	1.7	1.7	1.3
87.5°	0.9	1.3	1.3	1.3	0.9	0.4	0.9	1.3	1.3	2.2	1.7
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°	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5
2.5°	803.8	804.2	804.2	803.8	803.8	802.9	804.7	803.4	803.8	805.5	804.2
5°	804.7	805.1	805.1	804.7	804.7	804.7	805.1	805.1	804.7	804.2	805.1
7.5°	806.4	806.0	806.0	805.1	805.1	804.2	805.1	803.8	804.7	803.8	805.1
10°	804.2	804.7	804.2	803.8	803.8	803.4	803.4	802.1	802.5	801.2	802.1
12.5°	802.9	802.5	802.5	801.6	800.8	799.9	799.5	798.2	798.2	795.2	796.5
15°	799.5	799.9	798.6	796.9	796.0	793.9	793.0	791.3	789.6	787.4	787.9
17.5°	796.5	795.2	793.5	791.7	788.3	786.6	784.8	782.3	781.4	778.8	778.0
20°	787.4	786.6	784.4	781.4	779.2	775.4	773.7	771.1	768.9	766.3	765.0
22.5°	775.8	774.9	772.4	769.3	765.9	764.2	762.4	757.7	755.6	753.0	752.5
25°	761.2	759.9	757.3	753.8	752.1	747.4	745.6	742.2	741.3	738.8	738.3
27.5°	738.8	737.0	734.0	729.7	726.7	723.7	722.0	719.4	718.5	715.9	715.5
30°	705.2	703.0	697.0	695.3	690.1	687.1	687.1	683.6	684.0	682.3	682.3
32.5°	652.2	648.7	644.0	640.5	637.1	635.4	635.4	634.1	634.9	634.9	635.8
35°	582.0	577.2	574.6	572.5	572.5	574.2	579.4	580.7	583.3	585.4	587.1
37.5°	491.9	491.5	494.5	497.1	503.6	510.9	519.9	527.7	535.0	540.2	545.3
40°	394.6	405.3	414.0	426.0	435.9	450.1	466.5	479.9	492.4	501.4	510.9
42.5°	308.0	321.8	339.9	357.5	375.2	394.6	416.1	434.6	451.0	463.5	473.4
45°	239.9	258.9	280.9	303.3	326.1	350.2	372.6	391.6	408.8	421.7	431.6
47.5°	193.4	214.1	239.1	263.6	289.5	314.9	339.9	356.2	370.5	380.8	389.8
50°	159.8	181.8	208.1	236.1	261.9	287.3	308.9	324.8	336.4	345.5	351.1
52.5°	133.5	156.8	184.8	212.8	238.6	261.9	281.3	293.4	302.8	309.3	314.5
55°	110.3	132.7	159.0	185.2	210.6	232.6	248.5	257.6	264.9	268.8	271.8
57.5°	90.0	110.7	134.8	159.0	180.9	199.0	211.5	220.6	224.0	227.0	226.6
60°	70.6	90.0	112.0	132.7	151.6	166.3	175.3	180.5	183.1	184.4	183.5
62.5°	55.6	73.2	90.0	108.1	121.9	134.4	143.0	143.0	144.3	144.7	146.0
65°	41.3	54.7	69.4	82.7	93.9	102.1	106.8	108.1	109.8	109.4	108.6
67.5°	30.6	40.5	51.3	61.2	68.9	74.1	77.5	80.6	80.1	79.3	78.8
70°	21.1	27.6	37.0	43.1	48.7	53.8	54.7	55.1	55.6	56.0	55.1
72.5°	14.7	19.4	24.6	29.7	33.2	35.3	37.5	37.9	37.9	37.9	37.5
75°	7.3	9.9	14.7	16.8	19.8	20.7	22.4	22.4	23.7	22.0	21.5
77.5°	6.5	7.8	10.3	12.1	13.4	14.7	15.1	16.4	15.9	15.1	15.5
80°	3.9	4.7	6.5	7.3	9.0	9.5	9.9	10.3	9.9	10.3	10.3
82.5°	3.0	3.4	4.3	4.3	5.6	5.6	6.0	6.0	6.5	6.5	6.5
85°	1.7	3.0	2.6	5.2	3.4	3.4	4.3	5.2	4.3	4.3	5.2
87.5°	1.7	1.7	1.3	1.7	1.7	1.7	2.2	2.6	2.6	3.0	2.6
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°
0°	802.5	802.5	802.5	802.5
2.5°	803.8	804.7	803.4	802.9
5°	805.1	805.1	804.2	804.2
7.5°	805.1	805.1	803.8	802.9
10°	801.6	801.6	800.4	799.5
12.5°	795.2	795.2	794.8	793.5
15°	787.0	787.0	785.3	784.0
17.5°	775.8	776.7	774.5	774.5
20°	763.7	763.3	761.6	760.7
22.5°	751.3	750.4	750.0	747.4
25°	737.9	737.0	735.7	734.5
27.5°	715.1	714.6	713.3	711.6
30°	680.2	679.7	678.0	678.0
32.5°	634.9	634.5	632.8	633.2
35°	588.0	589.7	588.9	587.1
37.5°	548.8	550.1	550.9	550.1
40°	516.1	519.9	520.4	521.2
42.5°	481.2	486.3	488.1	488.9
45°	439.4	444.1	448.0	447.1
47.5°	396.7	400.2	403.6	401.0
50°	355.8	358.0	359.3	359.3
52.5°	317.0	317.0	316.6	317.0
55°	272.7	272.7	271.0	271.8
57.5°	226.1	227.0	225.7	223.6
60°	183.1	180.9	180.1	178.8
62.5°	142.6	142.6	139.6	143.4
65°	106.8	105.5	104.2	103.8
67.5°	77.5	77.1	75.8	75.4
70°	54.7	53.0	52.6	51.7
72.5°	36.6	36.6	35.8	35.8
75°	22.4	20.2	19.8	20.2
77.5°	15.5	15.1	15.1	14.7
80°	10.3	9.9	10.8	9.5
82.5°	6.5	6.9	6.5	6.9
85°	4.3	5.2	4.7	4.7
87.5°	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)