

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: P244585

Luminaire Tested: **LD8B15D010 ER8B15930 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B15D010 ER8B15930 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

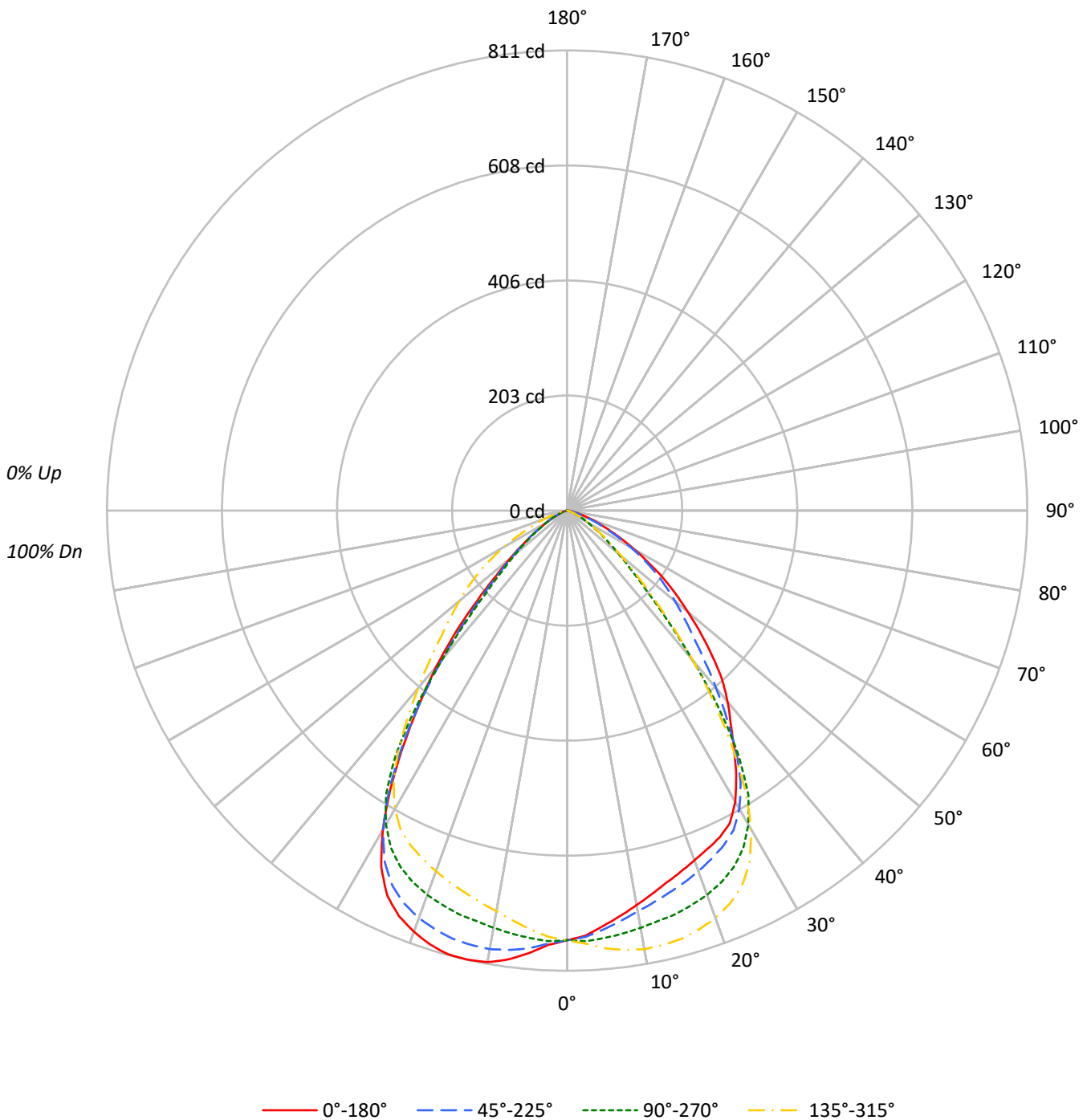
Lumens per Lamp: N/A
Luminaire Lumens: 1275.7 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	5.7
10°-20°	208.7	16.4
20°-30°	316.1	24.8
30°-40°	316.8	24.8
40°-50°	198.9	15.6
50°-60°	106.0	8.3
60°-70°	43.6	3.4
70°-80°	11.5	0.9
80°-90°	1.9	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°	596.9	46.8
0°-40°	913.7	71.6
0°-60°	1218.6	95.5
0°-90°	1275.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	757	757	757	757	757	
5°	734	756	783	756	734	69
15°	678	737	810	737	678	192
25°	636	694	750	694	636	292
35°	512	527	500	527	512	321
45°	361	193	223	193	361	278
55°	205	71	75	71	205	183
65°	82	22	20	22	82	85
75°	23	4	4	4	23	26
85°	5	0	0	0	5	5
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°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	749.6	748.8	748.5	749.2	749.6	751.1	750.7	751.4	751.4	751.9	752.5
5°	734.4	734.0	734.4	734.4	735.9	737.4	737.1	738.1	738.9	740.8	741.4
7.5°	720.4	720.4	720.0	721.5	722.3	724.4	724.1	726.0	727.0	728.9	731.5
10°	705.9	705.9	706.3	707.5	707.8	711.2	711.2	713.7	715.2	717.0	720.4
12.5°	691.9	691.9	694.1	693.3	694.8	697.5	698.5	701.2	703.3	707.0	710.4
15°	678.5	678.5	679.3	681.1	682.2	685.6	687.4	690.4	693.0	696.7	701.5
17.5°	667.1	666.8	667.1	669.3	671.6	674.5	676.0	679.7	682.2	687.1	691.5
20°	655.7	656.3	656.3	658.3	659.7	663.4	664.9	669.0	671.9	676.3	681.6
22.5°	645.7	645.2	645.2	647.9	648.9	652.3	653.8	657.5	660.8	664.5	669.3
25°	635.7	634.9	636.4	636.8	637.5	641.2	642.3	644.9	648.3	651.6	656.3
27.5°	620.9	620.1	620.5	622.0	623.1	626.1	626.8	629.4	632.0	634.9	639.0
30°	592.4	591.7	591.3	593.9	595.0	597.3	598.3	602.8	603.5	606.8	609.8
32.5°	554.7	554.3	555.1	557.2	558.4	561.4	562.9	565.4	567.2	569.1	572.0
35°	512.5	511.8	512.5	514.8	514.8	517.3	518.5	519.6	519.2	519.6	518.8
37.5°	473.4	472.9	473.4	474.4	473.4	474.4	473.4	471.2	467.0	462.6	458.2
40°	440.1	440.4	438.2	439.7	435.6	434.8	430.8	425.3	417.1	408.3	395.7
42.5°	404.6	403.4	402.0	402.7	399.4	396.8	390.1	383.2	372.7	357.9	342.8
45°	361.0	360.5	359.8	359.4	357.3	354.7	349.1	341.0	329.5	314.3	296.2
47.5°	318.4	317.2	317.2	317.7	315.1	314.7	310.3	303.2	293.3	278.5	259.6
50°	277.7	277.3	278.1	279.6	277.7	277.0	274.0	269.3	260.3	247.7	230.0
52.5°	241.1	240.8	241.5	243.4	242.6	243.4	240.3	236.6	230.7	218.6	203.0
55°	205.3	205.3	205.3	207.5	207.5	207.5	205.9	203.8	198.2	189.3	174.9
57.5°	167.9	168.3	170.5	170.8	170.5	171.2	170.8	168.6	164.9	158.6	147.5
60°	136.4	136.4	137.5	138.7	138.3	138.7	138.7	137.5	133.8	128.7	119.8
62.5°	108.0	109.1	108.3	109.1	110.5	109.1	108.3	107.6	105.0	101.7	94.3
65°	81.7	82.5	82.5	82.8	82.1	82.5	80.9	79.9	78.4	74.7	70.0
67.5°	62.1	62.1	62.1	62.1	61.8	61.4	61.0	59.9	57.3	55.8	50.7
70°	47.8	45.5	45.5	45.5	45.5	45.8	44.7	43.3	42.5	39.9	36.2
72.5°	31.8	32.5	31.8	31.8	31.1	31.4	29.9	29.3	28.5	27.0	24.8
75°	22.9	21.1	21.9	22.2	21.1	21.9	20.3	18.8	18.8	17.7	16.6
77.5°	14.8	14.5	14.8	15.1	14.8	14.5	13.7	12.9	12.9	12.6	11.4
80°	10.8	10.3	10.3	10.3	10.0	10.3	9.6	9.6	8.9	8.5	7.7
82.5°	7.1	7.1	6.6	7.1	6.6	7.1	5.9	5.9	5.9	5.5	4.8
85°	4.8	4.0	4.0	4.5	3.7	4.5	4.0	3.7	3.4	3.4	2.9
87.5°	2.2	2.6	2.2	2.6	2.2	2.2	2.6	2.2	2.2	1.5	1.5
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°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	753.6	754.0	754.0	755.6	756.2	756.6	756.6	759.6	758.5	759.3	759.9
5°	742.9	745.1	745.9	745.9	749.9	751.4	752.9	756.2	756.6	758.8	761.4
7.5°	732.6	735.2	736.6	740.0	742.6	745.1	749.6	751.9	754.0	757.0	760.3
10°	722.6	725.5	728.5	731.1	735.2	738.5	741.4	746.6	749.2	753.3	757.7
12.5°	713.0	717.0	719.6	724.1	728.5	731.5	735.9	740.8	744.8	748.8	754.0
15°	704.4	709.3	712.2	717.0	721.8	726.0	730.7	736.6	739.6	744.5	749.2
17.5°	695.2	700.4	704.1	708.5	714.4	718.9	722.9	728.9	732.6	737.7	743.3
20°	685.6	690.8	695.2	699.6	705.6	710.0	714.9	720.7	724.8	730.0	734.4
22.5°	674.2	679.0	683.7	689.0	694.8	698.5	704.1	709.3	713.7	718.6	722.9
25°	659.4	665.3	669.0	673.7	678.5	682.7	688.5	693.8	697.5	701.9	705.9
27.5°	642.0	646.4	649.4	653.4	658.3	662.0	666.3	671.6	675.3	679.3	682.2
30°	612.4	616.4	619.0	622.0	626.8	630.1	633.8	638.6	641.2	644.2	646.8
32.5°	573.5	576.9	578.3	580.6	583.9	587.2	590.2	594.2	595.4	597.3	597.3
35°	517.3	518.1	517.7	518.5	519.9	521.8	524.4	527.0	528.4	528.4	527.3
37.5°	451.5	447.1	442.2	438.5	437.4	436.7	438.2	439.3	440.8	441.6	439.7
40°	383.2	373.2	362.4	352.8	346.2	343.1	342.0	342.8	342.8	345.4	345.4
42.5°	324.3	308.7	292.9	278.5	268.8	261.4	258.2	258.2	258.5	260.3	261.4
45°	275.5	255.9	237.4	221.5	208.2	198.5	194.2	193.0	192.7	193.4	196.0
47.5°	238.1	217.8	198.5	179.0	164.9	155.4	151.2	149.8	148.3	149.8	150.1
50°	209.0	187.9	167.5	148.0	133.2	124.7	119.4	117.3	116.8	116.8	117.6
52.5°	182.3	162.8	142.4	122.4	106.8	98.8	93.9	92.8	91.4	92.8	92.8
55°	157.2	137.5	117.6	98.8	85.8	77.2	72.9	71.4	70.6	71.7	71.7
57.5°	129.8	113.1	94.7	77.7	64.7	58.9	55.5	53.6	53.2	54.0	53.2
60°	106.5	92.5	76.6	61.0	51.0	44.7	42.1	41.4	40.7	41.4	41.4
62.5°	84.3	72.5	59.5	47.8	39.2	34.8	31.8	31.8	31.4	31.4	31.8
65°	62.6	53.2	44.1	34.0	27.4	24.0	21.9	21.9	21.4	21.9	21.4
67.5°	45.5	39.2	31.8	24.8	19.6	17.7	16.3	15.1	15.9	15.1	14.8
70°	33.3	28.1	22.9	18.8	15.1	13.3	12.2	11.9	11.1	11.1	11.1
72.5°	22.2	18.8	15.5	12.2	10.0	8.2	7.7	7.1	6.3	6.6	7.4
75°	14.8	12.6	11.1	8.9	6.6	6.6	4.5	4.5	3.7	4.5	3.4
77.5°	10.3	8.5	6.6	5.5	4.5	4.0	2.9	2.9	2.6	2.6	2.6
80°	7.4	6.3	4.8	4.0	2.9	2.9	2.6	2.2	1.8	1.8	2.2
82.5°	4.5	3.4	3.4	2.9	1.8	1.5	1.1	1.5	0.8	0.8	0.8
85°	2.6	2.2	1.8	1.1	0.8	0.8	0.3	0.0	0.3	0.3	0.0
87.5°	1.5	0.8	0.8	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.8
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°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	761.8	761.4	762.2	762.2	764.4	764.0	765.1	765.1	764.4	764.7	766.2
5°	764.4	765.5	767.7	769.6	772.8	774.4	776.2	778.1	778.4	779.5	780.7
7.5°	764.4	768.1	770.7	773.9	778.4	781.0	785.0	788.4	789.9	791.8	794.0
10°	762.8	766.5	771.4	775.1	780.7	784.7	788.7	794.0	796.1	799.2	802.1
12.5°	759.9	764.0	769.1	773.9	780.2	783.9	789.2	794.0	797.3	801.3	804.7
15°	755.6	760.3	765.1	769.9	776.5	781.0	785.8	791.3	794.7	799.2	802.1
17.5°	748.5	753.6	758.1	762.5	768.8	773.9	778.4	783.6	786.9	790.6	794.7
20°	740.0	744.8	749.6	753.3	759.6	764.0	768.8	773.6	776.2	777.0	783.2
22.5°	729.2	732.6	736.3	742.2	745.9	749.9	754.4	758.8	761.4	765.5	767.7
25°	711.5	714.9	718.9	721.5	726.0	729.2	733.7	738.5	740.0	742.9	745.1
27.5°	686.7	688.5	690.4	692.7	695.2	697.0	699.6	701.9	703.3	704.8	706.3
30°	647.5	647.5	647.5	646.0	647.2	648.3	648.6	648.3	648.3	647.9	647.9
32.5°	595.7	592.8	589.4	586.5	585.4	583.9	583.1	582.0	580.2	579.1	579.4
35°	525.9	519.2	515.1	511.4	508.5	506.2	505.1	504.0	503.7	502.2	500.8
37.5°	438.5	433.8	430.8	428.6	426.0	423.7	424.2	424.5	425.6	424.9	425.3
40°	346.2	345.0	346.2	343.6	342.8	343.6	345.4	348.0	349.4	351.0	353.6
42.5°	263.3	265.1	267.7	267.7	268.8	270.3	272.5	276.7	278.8	281.4	284.4
45°	198.2	200.4	203.8	204.8	205.6	207.5	210.1	213.3	214.9	217.0	219.6
47.5°	152.7	154.2	156.0	157.9	159.7	160.5	163.1	163.1	164.9	166.4	167.1
50°	119.1	120.5	122.1	123.1	123.9	125.0	125.8	126.8	127.2	127.9	128.4
52.5°	93.2	95.1	95.1	95.7	96.9	98.0	97.6	98.0	98.3	98.3	99.4
55°	72.9	72.9	74.0	74.0	74.7	74.3	74.7	74.7	74.7	74.7	75.1
57.5°	54.4	54.7	55.8	55.2	54.7	55.5	54.7	55.5	55.2	55.8	54.7
60°	41.8	41.8	42.1	42.1	42.5	42.5	42.5	42.1	42.1	41.8	41.8
62.5°	31.4	31.8	32.2	31.8	31.8	31.8	31.4	31.4	31.1	30.7	30.7
65°	21.1	20.7	21.4	20.7	21.1	21.1	20.7	21.1	20.0	20.3	20.0
67.5°	15.1	14.8	14.5	14.8	14.5	14.0	14.0	14.5	14.8	13.7	13.7
70°	10.0	10.3	10.0	10.3	10.8	10.8	10.3	10.0	10.3	9.6	10.0
72.5°	6.3	6.3	6.3	6.3	6.3	6.6	6.6	6.6	5.9	5.9	5.5
75°	2.9	4.0	3.4	2.9	4.0	4.0	3.7	3.7	3.4	3.4	3.4
77.5°	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.8	2.2	1.8
80°	1.5	1.5	1.5	1.1	1.5	1.5	1.8	1.5	1.5	1.1	1.8
82.5°	0.8	0.8	0.8	0.0	0.3	0.8	0.8	0.3	0.8	0.8	0.3
85°	0.0	0.0	0.0	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	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



TEST NUMBER: P244585

CATALOG NUMBER: LD8B15D010 ER8B15930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	765.9	765.5	765.9	766.2	765.9	765.5	765.9	766.2	764.7	764.4	765.1
5°	782.1	782.1	782.9	783.2	782.9	782.1	782.1	780.7	779.5	778.4	778.1
7.5°	796.1	796.9	797.6	798.0	797.6	796.9	796.1	794.0	791.8	789.9	788.4
10°	804.7	805.8	807.2	808.0	807.2	805.8	804.7	802.1	799.2	796.1	794.0
12.5°	808.4	809.5	811.4	810.9	811.4	809.5	808.4	804.7	801.3	797.3	794.0
15°	805.8	807.2	809.1	809.8	809.1	807.2	805.8	802.1	799.2	794.7	791.3
17.5°	797.6	799.8	801.0	802.1	801.0	799.8	797.6	794.7	790.6	786.9	783.6
20°	786.6	788.1	789.5	789.9	789.5	788.1	786.6	783.2	777.0	776.2	773.6
22.5°	770.7	771.8	775.1	773.9	775.1	771.8	770.7	767.7	765.5	761.4	758.8
25°	747.7	748.8	749.2	749.6	749.2	748.8	747.7	745.1	742.9	740.0	738.5
27.5°	708.1	708.1	708.9	709.3	708.9	708.1	708.1	706.3	704.8	703.3	701.9
30°	648.3	648.3	648.3	650.1	648.3	648.3	648.3	647.9	647.9	648.3	648.3
32.5°	579.1	578.3	577.7	578.3	577.7	578.3	579.1	579.4	579.1	580.2	582.0
35°	500.8	500.3	501.4	500.0	501.4	500.3	500.8	500.8	502.2	503.7	504.0
37.5°	425.6	424.9	426.4	424.9	426.4	424.9	425.6	425.3	424.9	425.6	424.5
40°	354.2	355.0	355.0	357.9	355.0	355.0	354.2	353.6	351.0	349.4	348.0
42.5°	285.9	288.1	287.3	289.6	287.3	288.1	285.9	284.4	281.4	278.8	276.7
45°	221.2	222.6	222.6	223.3	222.6	222.6	221.2	219.6	217.0	214.9	213.3
47.5°	169.7	169.7	169.7	170.1	169.7	169.7	169.7	167.1	166.4	164.9	163.1
50°	129.0	129.5	129.8	130.1	129.8	129.5	129.0	128.4	127.9	127.2	126.8
52.5°	99.1	99.4	98.8	99.4	98.8	99.4	99.1	99.4	98.3	98.3	98.0
55°	75.1	74.7	75.1	75.4	75.1	74.7	75.1	75.1	74.7	74.7	74.7
57.5°	55.2	54.4	54.4	54.4	54.4	54.4	55.2	54.7	55.8	55.2	55.5
60°	41.0	41.4	41.4	41.8	41.4	41.4	41.0	41.8	41.8	42.1	42.1
62.5°	30.3	31.4	30.7	31.4	30.7	31.4	30.3	30.7	30.7	31.1	31.4
65°	19.6	19.6	19.6	20.0	19.6	19.6	19.6	20.0	20.3	20.0	21.1
67.5°	13.3	13.7	14.5	14.0	14.5	13.7	13.3	13.7	13.7	14.8	14.5
70°	10.8	9.6	9.6	10.8	9.6	9.6	10.8	10.0	9.6	10.3	10.0
72.5°	6.3	5.5	6.3	6.3	6.3	5.5	6.3	5.5	5.9	5.9	6.6
75°	3.4	2.9	2.6	3.7	2.6	2.9	3.4	3.4	3.4	3.4	3.7
77.5°	2.2	1.8	2.6	2.6	2.6	1.8	2.2	1.8	2.2	1.8	2.2
80°	1.1	1.5	1.1	1.8	1.1	1.5	1.1	1.8	1.1	1.5	1.5
82.5°	0.3	0.8	0.8	0.8	0.8	0.8	0.3	0.3	0.8	0.8	0.3
85°	0.0	0.8	0.3	0.3	0.3	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	0.3	0.0	0.0	0.3	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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	765.1	764.0	764.4	762.2	762.2	761.4	761.8	759.9	759.3	758.5	759.6
5°	776.2	774.4	772.8	769.6	767.7	765.5	764.4	761.4	758.8	756.6	756.2
7.5°	785.0	781.0	778.4	773.9	770.7	768.1	764.4	760.3	757.0	754.0	751.9
10°	788.7	784.7	780.7	775.1	771.4	766.5	762.8	757.7	753.3	749.2	746.6
12.5°	789.2	783.9	780.2	773.9	769.1	764.0	759.9	754.0	748.8	744.8	740.8
15°	785.8	781.0	776.5	769.9	765.1	760.3	755.6	749.2	744.5	739.6	736.6
17.5°	778.4	773.9	768.8	762.5	758.1	753.6	748.5	743.3	737.7	732.6	728.9
20°	768.8	764.0	759.6	753.3	749.6	744.8	740.0	734.4	730.0	724.8	720.7
22.5°	754.4	749.9	745.9	742.2	736.3	732.6	729.2	722.9	718.6	713.7	709.3
25°	733.7	729.2	726.0	721.5	718.9	714.9	711.5	705.9	701.9	697.5	693.8
27.5°	699.6	697.0	695.2	692.7	690.4	688.5	686.7	682.2	679.3	675.3	671.6
30°	648.6	648.3	647.2	646.0	647.5	647.5	647.5	646.8	644.2	641.2	638.6
32.5°	583.1	583.9	585.4	586.5	589.4	592.8	595.7	597.3	597.3	595.4	594.2
35°	505.1	506.2	508.5	511.4	515.1	519.2	525.9	527.3	528.4	528.4	527.0
37.5°	424.2	423.7	426.0	428.6	430.8	433.8	438.5	439.7	441.6	440.8	439.3
40°	345.4	343.6	342.8	343.6	346.2	345.0	346.2	345.4	345.4	342.8	342.8
42.5°	272.5	270.3	268.8	267.7	267.7	265.1	263.3	261.4	260.3	258.5	258.2
45°	210.1	207.5	205.6	204.8	203.8	200.4	198.2	196.0	193.4	192.7	193.0
47.5°	163.1	160.5	159.7	157.9	156.0	154.2	152.7	150.1	149.8	148.3	149.8
50°	125.8	125.0	123.9	123.1	122.1	120.5	119.1	117.6	116.8	116.8	117.3
52.5°	97.6	98.0	96.9	95.7	95.1	95.1	93.2	92.8	92.8	91.4	92.8
55°	74.7	74.3	74.7	74.0	74.0	72.9	72.9	71.7	71.7	70.6	71.4
57.5°	54.7	55.5	54.7	55.2	55.8	54.7	54.4	53.2	54.0	53.2	53.6
60°	42.5	42.5	42.5	42.1	42.1	41.8	41.8	41.4	41.4	40.7	41.4
62.5°	31.4	31.8	31.8	31.8	32.2	31.8	31.4	31.8	31.4	31.4	31.8
65°	20.7	21.1	21.1	20.7	21.4	20.7	21.1	21.4	21.9	21.4	21.9
67.5°	14.0	14.0	14.5	14.8	14.5	14.8	15.1	14.8	15.1	15.9	15.1
70°	10.3	10.8	10.8	10.3	10.0	10.3	10.0	11.1	11.1	11.1	11.9
72.5°	6.6	6.6	6.3	6.3	6.3	6.3	6.3	7.4	6.6	6.3	7.1
75°	3.7	4.0	4.0	2.9	3.4	4.0	2.9	3.4	4.5	3.7	4.5
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.6	2.6	2.6	2.9
80°	1.8	1.5	1.5	1.1	1.5	1.5	1.5	2.2	1.8	1.8	2.2
82.5°	0.8	0.8	0.3	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	756.6	756.6	756.2	755.6	754.0	754.0	753.6	752.5	751.9	751.4	751.4
5°	752.9	751.4	749.9	745.9	745.9	745.1	742.9	741.4	740.8	738.9	738.1
7.5°	749.6	745.1	742.6	740.0	736.6	735.2	732.6	731.5	728.9	727.0	726.0
10°	741.4	738.5	735.2	731.1	728.5	725.5	722.6	720.4	717.0	715.2	713.7
12.5°	735.9	731.5	728.5	724.1	719.6	717.0	713.0	710.4	707.0	703.3	701.2
15°	730.7	726.0	721.8	717.0	712.2	709.3	704.4	701.5	696.7	693.0	690.4
17.5°	722.9	718.9	714.4	708.5	704.1	700.4	695.2	691.5	687.1	682.2	679.7
20°	714.9	710.0	705.6	699.6	695.2	690.8	685.6	681.6	676.3	671.9	669.0
22.5°	704.1	698.5	694.8	689.0	683.7	679.0	674.2	669.3	664.5	660.8	657.5
25°	688.5	682.7	678.5	673.7	669.0	665.3	659.4	656.3	651.6	648.3	644.9
27.5°	666.3	662.0	658.3	653.4	649.4	646.4	642.0	639.0	634.9	632.0	629.4
30°	633.8	630.1	626.8	622.0	619.0	616.4	612.4	609.8	606.8	603.5	602.8
32.5°	590.2	587.2	583.9	580.6	578.3	576.9	573.5	572.0	569.1	567.2	565.4
35°	524.4	521.8	519.9	518.5	517.7	518.1	517.3	518.8	519.6	519.2	519.6
37.5°	438.2	436.7	437.4	438.5	442.2	447.1	451.5	458.2	462.6	467.0	471.2
40°	342.0	343.1	346.2	352.8	362.4	373.2	383.2	395.7	408.3	417.1	425.3
42.5°	258.2	261.4	268.8	278.5	292.9	308.7	324.3	342.8	357.9	372.7	383.2
45°	194.2	198.5	208.2	221.5	237.4	255.9	275.5	296.2	314.3	329.5	341.0
47.5°	151.2	155.4	164.9	179.0	198.5	217.8	238.1	259.6	278.5	293.3	303.2
50°	119.4	124.7	133.2	148.0	167.5	187.9	209.0	230.0	247.7	260.3	269.3
52.5°	93.9	98.8	106.8	122.4	142.4	162.8	182.3	203.0	218.6	230.7	236.6
55°	72.9	77.2	85.8	98.8	117.6	137.5	157.2	174.9	189.3	198.2	203.8
57.5°	55.5	58.9	64.7	77.7	94.7	113.1	129.8	147.5	158.6	164.9	168.6
60°	42.1	44.7	51.0	61.0	76.6	92.5	106.5	119.8	128.7	133.8	137.5
62.5°	31.8	34.8	39.2	47.8	59.5	72.5	84.3	94.3	101.7	105.0	107.6
65°	21.9	24.0	27.4	34.0	44.1	53.2	62.6	70.0	74.7	78.4	79.9
67.5°	16.3	17.7	19.6	24.8	31.8	39.2	45.5	50.7	55.8	57.3	59.9
70°	12.2	13.3	15.1	18.8	22.9	28.1	33.3	36.2	39.9	42.5	43.3
72.5°	7.7	8.2	10.0	12.2	15.5	18.8	22.2	24.8	27.0	28.5	29.3
75°	4.5	6.6	6.6	8.9	11.1	12.6	14.8	16.6	17.7	18.8	18.8
77.5°	2.9	4.0	4.5	5.5	6.6	8.5	10.3	11.4	12.6	12.9	12.9
80°	2.6	2.9	2.9	4.0	4.8	6.3	7.4	7.7	8.5	8.9	9.6
82.5°	1.1	1.5	1.8	2.9	3.4	3.4	4.5	4.8	5.5	5.9	5.9
85°	0.3	0.8	0.8	1.1	1.8	2.2	2.6	2.9	3.4	3.4	3.7
87.5°	0.3	0.3	0.0	0.3	0.8	0.8	1.5	1.5	1.5	2.2	2.2
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):

	330°	335°	340°	345°	350°	355°	360°
0°	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	750.7	751.1	749.6	749.2	748.5	748.8	749.6
5°	737.1	737.4	735.9	734.4	734.4	734.0	734.4
7.5°	724.1	724.4	722.3	721.5	720.0	720.4	720.4
10°	711.2	711.2	707.8	707.5	706.3	705.9	705.9
12.5°	698.5	697.5	694.8	693.3	694.1	691.9	691.9
15°	687.4	685.6	682.2	681.1	679.3	678.5	678.5
17.5°	676.0	674.5	671.6	669.3	667.1	666.8	667.1
20°	664.9	663.4	659.7	658.3	656.3	656.3	655.7
22.5°	653.8	652.3	648.9	647.9	645.2	645.2	645.7
25°	642.3	641.2	637.5	636.8	636.4	634.9	635.7
27.5°	626.8	626.1	623.1	622.0	620.5	620.1	620.9
30°	598.3	597.3	595.0	593.9	591.3	591.7	592.4
32.5°	562.9	561.4	558.4	557.2	555.1	554.3	554.7
35°	518.5	517.3	514.8	514.8	512.5	511.8	512.5
37.5°	473.4	474.4	473.4	474.4	473.4	472.9	473.4
40°	430.8	434.8	435.6	439.7	438.2	440.4	440.1
42.5°	390.1	396.8	399.4	402.7	402.0	403.4	404.6
45°	349.1	354.7	357.3	359.4	359.8	360.5	361.0
47.5°	310.3	314.7	315.1	317.7	317.2	317.2	318.4
50°	274.0	277.0	277.7	279.6	278.1	277.3	277.7
52.5°	240.3	243.4	242.6	243.4	241.5	240.8	241.1
55°	205.9	207.5	207.5	207.5	205.3	205.3	205.3
57.5°	170.8	171.2	170.5	170.8	170.5	168.3	167.9
60°	138.7	138.7	138.3	138.7	137.5	136.4	136.4
62.5°	108.3	109.1	110.5	109.1	108.3	109.1	108.0
65°	80.9	82.5	82.1	82.8	82.5	82.5	81.7
67.5°	61.0	61.4	61.8	62.1	62.1	62.1	62.1
70°	44.7	45.8	45.5	45.5	45.5	45.5	47.8
72.5°	29.9	31.4	31.1	31.8	31.8	32.5	31.8
75°	20.3	21.9	21.1	22.2	21.9	21.1	22.9
77.5°	13.7	14.5	14.8	15.1	14.8	14.5	14.8
80°	9.6	10.3	10.0	10.3	10.3	10.3	10.8
82.5°	5.9	7.1	6.6	7.1	6.6	7.1	7.1
85°	4.0	4.5	3.7	4.5	4.0	4.0	4.8
87.5°	2.6	2.2	2.2	2.6	2.2	2.6	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)