

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: P246241

Luminaire Tested: **LSR8B15D010 EC8B15930 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246241
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 EC8B15930 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1279.1 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

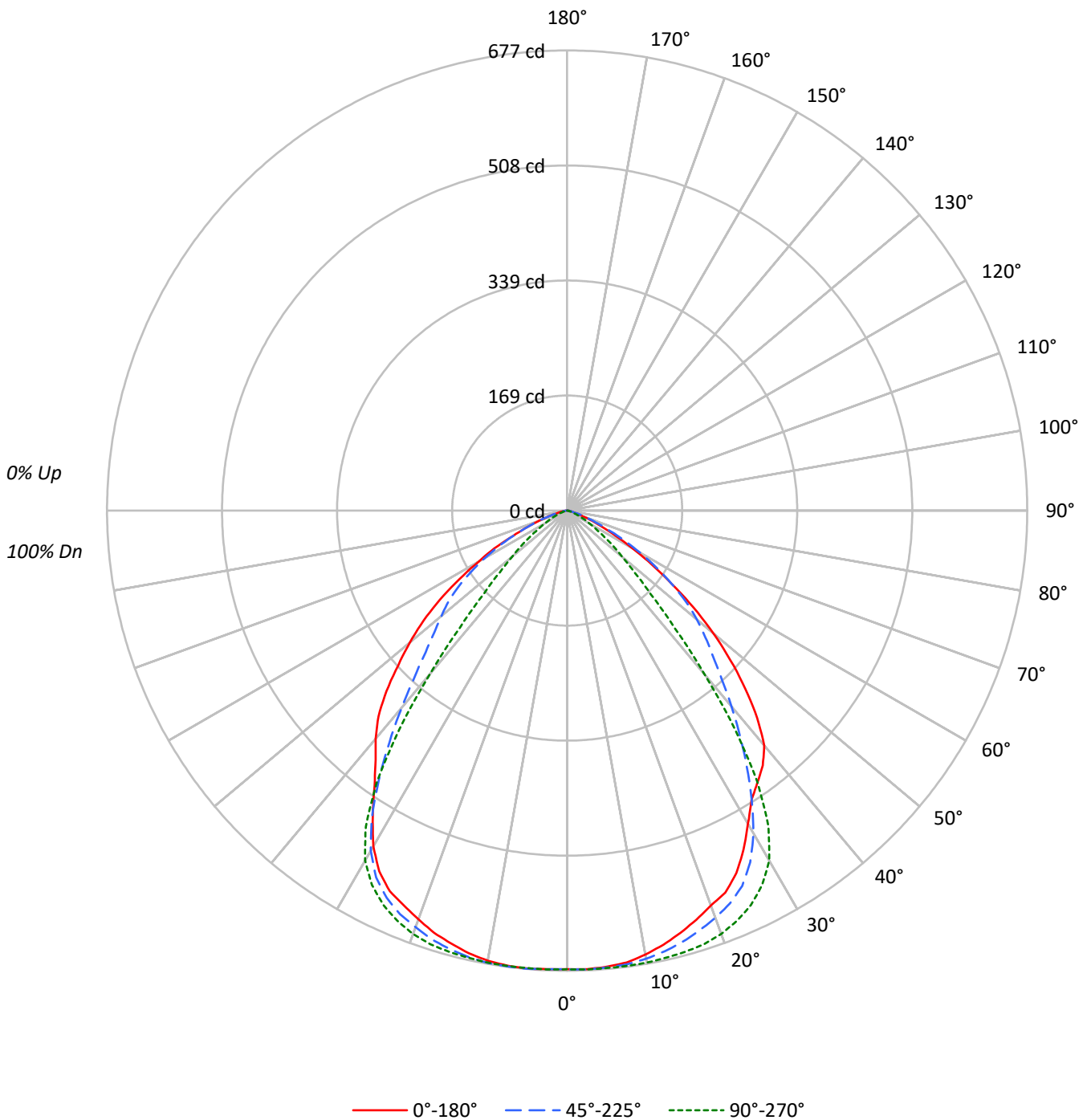
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	64.4	5.0
10°-20°	187.0	14.6
20°-30°	283.9	22.2
30°-40°	298.2	23.3
40°-50°	223.6	17.5
50°-60°	143.4	11.2
60°-70°	61.4	4.8
70°-80°	14.5	1.1
80°-90°	2.7	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°	535.3	41.9
0°-40°	833.5	65.2
0°-60°	1200.5	93.9
0°-90°	1279.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	675	675	675	675	675	
5°	674	675	676	677	676	64
15°	643	657	672	668	659	181
25°	589	609	640	628	618	269
35°	488	461	489	483	494	306
45°	371	303	174	294	376	284
55°	188	188	65	196	229	170
65°	56	67	21	86	87	60
75°	9	10	3	17	17	13
85°	3	2	2	3	4	3
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°	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
2.5°	675.2	676.0	675.6	675.6	675.2	675.6	675.6	676.3	676.3	675.6	675.2
5°	673.7	674.5	674.5	673.7	673.7	675.6	674.5	675.2	675.2	674.8	674.8
7.5°	670.5	670.5	671.9	670.9	670.9	671.9	671.6	672.4	673.0	673.4	673.4
10°	663.3	664.0	664.3	664.3	664.8	665.8	666.5	668.0	668.7	669.5	669.8
12.5°	654.2	655.3	655.7	655.3	656.3	657.8	659.6	661.5	662.5	664.0	665.1
15°	643.3	643.3	644.0	645.1	645.9	648.1	649.8	652.1	654.9	656.8	658.6
17.5°	631.3	632.1	633.3	633.3	634.6	638.3	639.3	642.7	645.9	647.7	651.3
20°	618.3	619.0	620.1	620.9	622.7	625.6	627.8	630.7	634.3	637.5	641.2
22.5°	608.3	606.8	607.5	608.3	610.0	612.5	615.1	618.7	622.4	625.6	629.2
25°	588.6	589.0	590.1	590.8	593.0	595.1	598.1	602.4	605.7	609.3	613.3
27.5°	562.2	562.5	564.4	564.4	566.2	569.8	571.6	575.2	579.6	583.3	588.0
30°	532.1	532.8	532.8	534.3	535.4	537.2	539.0	542.7	544.8	548.1	554.6
32.5°	504.6	505.3	505.0	504.6	503.6	503.1	502.8	503.6	504.2	505.3	507.8
35°	488.3	486.5	485.1	482.5	479.6	476.0	472.7	468.4	464.4	461.2	457.5
37.5°	472.7	472.4	470.1	466.6	460.7	454.2	446.6	437.2	427.8	417.7	407.9
40°	451.0	449.9	448.1	443.0	436.5	428.6	418.4	406.8	391.6	376.0	360.1
42.5°	414.0	414.4	412.2	408.3	402.1	394.5	383.9	371.3	355.0	336.5	315.9
45°	370.9	370.9	370.3	366.9	362.6	356.5	348.5	338.0	322.1	303.2	281.1
47.5°	326.0	326.4	325.3	324.5	322.7	318.8	313.0	305.0	293.8	275.7	253.6
50°	280.4	280.4	282.2	281.8	281.8	280.4	277.9	273.1	263.3	248.9	228.2
52.5°	234.7	235.4	236.5	238.0	239.8	242.7	239.8	237.7	231.5	220.3	202.5
55°	187.7	188.3	190.1	192.7	194.9	197.7	198.5	198.5	195.3	187.7	174.2
57.5°	147.4	146.3	147.7	150.0	152.9	155.8	157.9	160.5	160.1	155.0	144.2
60°	110.9	111.2	112.3	114.5	116.7	119.2	122.1	124.2	125.3	122.7	115.9
62.5°	80.8	80.8	82.3	84.4	85.5	89.1	90.9	92.0	93.0	92.7	88.3
65°	56.5	57.3	58.0	59.1	60.1	62.3	63.3	65.6	66.3	66.7	63.3
67.5°	39.8	38.8	39.5	40.2	41.3	42.7	45.0	45.0	46.0	46.0	43.8
70°	25.3	25.3	25.7	26.8	27.6	27.9	28.6	29.4	30.4	30.0	30.0
72.5°	17.0	16.7	17.0	17.4	17.7	18.8	18.8	19.2	20.0	20.3	18.8
75°	8.7	9.1	9.8	9.4	10.5	9.8	10.1	11.2	10.9	10.1	10.1
77.5°	7.3	7.3	7.3	6.8	7.6	7.6	7.3	8.0	7.6	7.6	7.3
80°	5.0	5.4	5.0	4.7	5.0	4.7	4.7	4.7	4.7	4.7	4.4
82.5°	4.0	3.3	3.6	3.3	3.6	3.6	3.3	2.9	2.9	3.3	2.9
85°	2.9	2.1	2.6	2.6	2.1	2.1	2.1	2.1	2.1	1.8	1.8
87.5°	1.8	1.1	1.1	1.1	1.5	1.5	1.5	1.1	1.5	1.5	0.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
2.5°	676.0	675.6	676.3	676.0	676.0	675.6	676.0	675.6	676.3	674.8	675.2
5°	676.0	675.2	675.6	676.0	676.3	675.6	675.6	675.6	676.3	675.6	676.0
7.5°	674.5	674.2	675.2	676.0	675.6	675.2	676.0	675.6	676.3	676.0	676.6
10°	671.6	671.9	672.7	673.7	674.2	674.5	675.2	675.2	676.3	674.8	675.6
12.5°	667.2	668.7	670.5	671.3	672.7	672.7	673.4	673.7	674.5	674.2	675.2
15°	661.8	663.6	665.8	667.7	669.5	670.5	671.6	671.9	673.0	671.9	672.4
17.5°	655.3	657.5	660.7	662.8	665.8	666.9	668.3	669.0	670.1	669.5	669.8
20°	646.3	648.8	652.4	655.7	657.5	660.0	661.8	662.8	663.6	662.8	663.3
22.5°	633.6	637.2	641.9	644.5	648.1	650.2	650.6	653.1	654.9	653.1	653.9
25°	618.7	622.4	626.0	631.3	634.6	637.2	639.8	640.1	641.9	641.5	641.2
27.5°	594.1	598.8	604.9	609.3	613.6	617.7	620.5	621.3	623.1	622.4	622.7
30°	560.4	565.4	571.3	578.1	584.3	588.3	591.9	594.5	596.3	595.1	594.8
32.5°	512.5	517.7	523.8	530.7	538.0	543.7	548.1	551.3	553.5	552.8	551.0
35°	457.9	459.3	463.3	468.7	474.9	481.0	485.1	488.6	491.2	491.9	491.9
37.5°	401.8	397.1	394.1	394.1	397.7	400.3	403.9	406.0	410.1	411.5	412.6
40°	347.4	336.5	326.4	318.8	313.7	313.3	313.3	314.4	318.0	322.7	327.1
42.5°	298.9	281.5	265.9	251.8	241.6	235.9	233.3	233.6	236.5	240.9	248.2
45°	260.1	238.3	218.8	201.8	188.0	178.9	174.7	174.2	176.4	181.5	189.4
47.5°	230.0	206.8	184.7	165.2	150.3	140.6	135.5	134.1	135.5	140.2	149.7
50°	205.0	181.2	158.3	138.0	122.1	112.0	107.2	105.4	107.2	111.2	120.6
52.5°	181.8	157.2	135.9	116.2	99.2	90.6	85.5	84.4	85.5	90.2	97.9
55°	155.0	134.1	113.0	93.5	78.6	70.0	65.9	64.8	65.9	70.3	78.2
57.5°	128.6	110.5	92.0	74.2	61.5	53.9	50.3	48.9	51.5	54.4	63.8
60°	103.9	89.5	73.9	58.3	47.9	40.9	38.0	37.7	38.5	42.0	48.5
62.5°	81.5	69.5	57.3	44.5	35.9	33.0	29.4	29.0	29.7	31.8	37.0
65°	58.7	51.1	41.7	32.6	25.7	21.7	20.3	20.6	21.4	22.9	27.6
67.5°	40.9	35.5	29.0	22.9	17.7	15.9	14.5	14.1	14.5	17.0	19.6
70°	27.6	24.2	19.6	17.4	12.3	9.8	10.1	9.1	10.5	10.5	12.7
72.5°	18.2	15.9	13.0	10.1	8.7	6.8	6.8	6.5	7.3	7.6	9.4
75°	9.4	7.3	7.3	5.0	3.6	1.8	3.3	2.9	2.6	2.9	3.6
77.5°	6.5	5.4	5.0	4.0	3.6	2.9	2.9	2.9	2.9	3.3	3.6
80°	4.0	4.0	2.9	2.6	2.1	1.8	2.1	2.1	2.1	2.1	2.6
82.5°	2.6	2.1	2.1	1.8	1.8	1.5	1.5	1.5	1.5	1.5	2.1
85°	2.1	1.5	1.5	1.1	1.5	2.6	1.1	1.5	1.5	1.5	1.1
87.5°	0.7	1.1	1.1	1.1	0.7	0.3	0.7	1.1	1.1	1.8	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
2.5°	676.0	676.3	676.3	676.0	676.0	675.2	676.6	675.6	676.0	677.4	676.3
5°	676.6	677.1	677.1	676.6	676.6	676.6	677.1	677.1	676.6	676.3	677.1
7.5°	678.1	677.8	677.8	677.1	677.1	676.3	677.1	676.0	676.6	676.0	677.1
10°	676.3	676.6	676.3	676.0	676.0	675.6	675.6	674.5	674.8	673.7	674.5
12.5°	675.2	674.8	674.8	674.2	673.4	672.7	672.4	671.3	671.3	668.7	669.8
15°	672.4	672.7	671.6	670.1	669.5	667.7	666.9	665.4	664.0	662.2	662.5
17.5°	669.8	668.7	667.2	665.8	662.8	661.5	660.0	657.8	657.1	654.9	654.2
20°	662.2	661.5	659.6	657.1	655.3	652.1	650.6	648.4	646.6	644.5	643.3
22.5°	652.4	651.6	649.5	646.9	644.0	642.7	641.2	637.2	635.4	633.3	632.8
25°	640.1	639.0	636.8	633.9	632.5	628.5	627.1	624.2	623.4	621.3	620.9
27.5°	621.3	619.8	617.2	613.6	611.1	608.6	607.1	604.9	604.2	602.1	601.6
30°	593.0	591.2	586.1	584.7	580.3	577.8	577.8	574.8	575.2	573.8	573.8
32.5°	548.4	545.6	541.6	538.6	535.7	534.3	534.3	533.3	533.9	533.9	534.7
35°	489.4	485.4	483.3	481.5	481.5	482.8	487.2	488.3	490.4	492.3	493.7
37.5°	413.6	413.3	415.9	418.0	423.5	429.6	437.2	443.8	449.9	454.2	458.6
40°	331.8	340.9	348.1	358.3	366.6	378.6	392.4	403.6	414.0	421.6	429.6
42.5°	259.0	270.6	285.9	300.7	315.6	331.8	350.0	365.6	379.2	389.8	398.1
45°	201.8	217.7	236.2	255.0	274.2	294.5	313.3	329.2	343.8	354.7	363.0
47.5°	162.7	180.0	201.0	221.7	243.5	264.8	285.9	299.5	311.5	320.3	327.8
50°	134.4	152.9	175.0	198.5	220.3	241.6	259.7	273.1	282.9	290.6	295.3
52.5°	112.3	131.8	155.4	178.9	200.7	220.3	236.5	246.7	254.7	260.1	264.4
55°	92.7	111.5	133.6	155.8	177.1	195.6	209.0	216.6	222.7	226.0	228.6
57.5°	75.7	93.0	113.3	133.6	152.1	167.4	177.9	185.4	188.3	190.9	190.6
60°	59.4	75.7	94.2	111.5	127.5	139.8	147.4	151.8	153.9	155.0	154.4
62.5°	46.7	61.5	75.7	90.9	102.5	113.0	120.3	120.3	121.4	121.7	122.7
65°	34.8	46.0	58.3	69.5	78.9	85.9	89.8	90.9	92.4	92.0	91.2
67.5°	25.7	34.1	43.2	51.5	58.0	62.3	65.2	67.7	67.4	66.7	66.3
70°	17.7	23.2	31.2	36.2	40.9	45.3	46.0	46.4	46.7	47.1	46.4
72.5°	12.3	16.3	20.6	25.0	27.9	29.7	31.5	31.8	31.8	31.8	31.5
75°	6.2	8.3	12.3	14.1	16.7	17.4	18.8	18.8	20.0	18.5	18.2
77.5°	5.4	6.5	8.7	10.1	11.2	12.3	12.7	13.8	13.5	12.7	13.0
80°	3.3	4.0	5.4	6.2	7.6	8.0	8.3	8.7	8.3	8.7	8.7
82.5°	2.6	2.9	3.6	3.6	4.7	4.7	5.0	5.0	5.4	5.4	5.4
85°	1.5	2.6	2.1	4.4	2.9	2.9	3.6	4.4	3.6	3.6	4.4
87.5°	1.5	1.5	1.1	1.5	1.5	1.5	1.8	2.1	2.1	2.6	2.1
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°	674.8	674.8	674.8	674.8
2.5°	676.0	676.6	675.6	675.2
5°	677.1	677.1	676.3	676.3
7.5°	677.1	677.1	676.0	675.2
10°	674.2	674.2	673.0	672.4
12.5°	668.7	668.7	668.3	667.2
15°	661.8	661.8	660.4	659.3
17.5°	652.4	653.1	651.3	651.3
20°	642.2	641.9	640.4	639.8
22.5°	631.8	631.0	630.7	628.5
25°	620.5	619.8	618.7	617.7
27.5°	601.3	601.0	599.8	598.4
30°	571.9	571.6	570.1	570.1
32.5°	533.9	533.6	532.1	532.5
35°	494.5	495.9	495.1	493.7
37.5°	461.5	462.6	463.3	462.6
40°	433.9	437.2	437.6	438.3
42.5°	404.7	408.9	410.4	411.2
45°	369.5	373.5	376.8	376.0
47.5°	333.6	336.5	339.4	337.2
50°	299.2	301.0	302.1	302.1
52.5°	266.6	266.6	266.2	266.6
55°	229.2	229.2	227.9	228.6
57.5°	190.1	190.9	189.8	188.0
60°	153.9	152.1	151.4	150.3
62.5°	119.9	119.9	117.4	120.6
65°	89.8	88.8	87.7	87.3
67.5°	65.2	64.8	63.8	63.3
70°	46.0	44.5	44.2	43.5
72.5°	30.8	30.8	30.0	30.0
75°	18.8	17.0	16.7	17.0
77.5°	13.0	12.7	12.7	12.3
80°	8.7	8.3	9.1	8.0
82.5°	5.4	5.8	5.4	5.8
85°	3.6	4.4	4.0	4.0
87.5°	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)