

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: P244225

Luminaire Tested: **LSR8B15D010 EC8B159730 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B159730 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1196.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

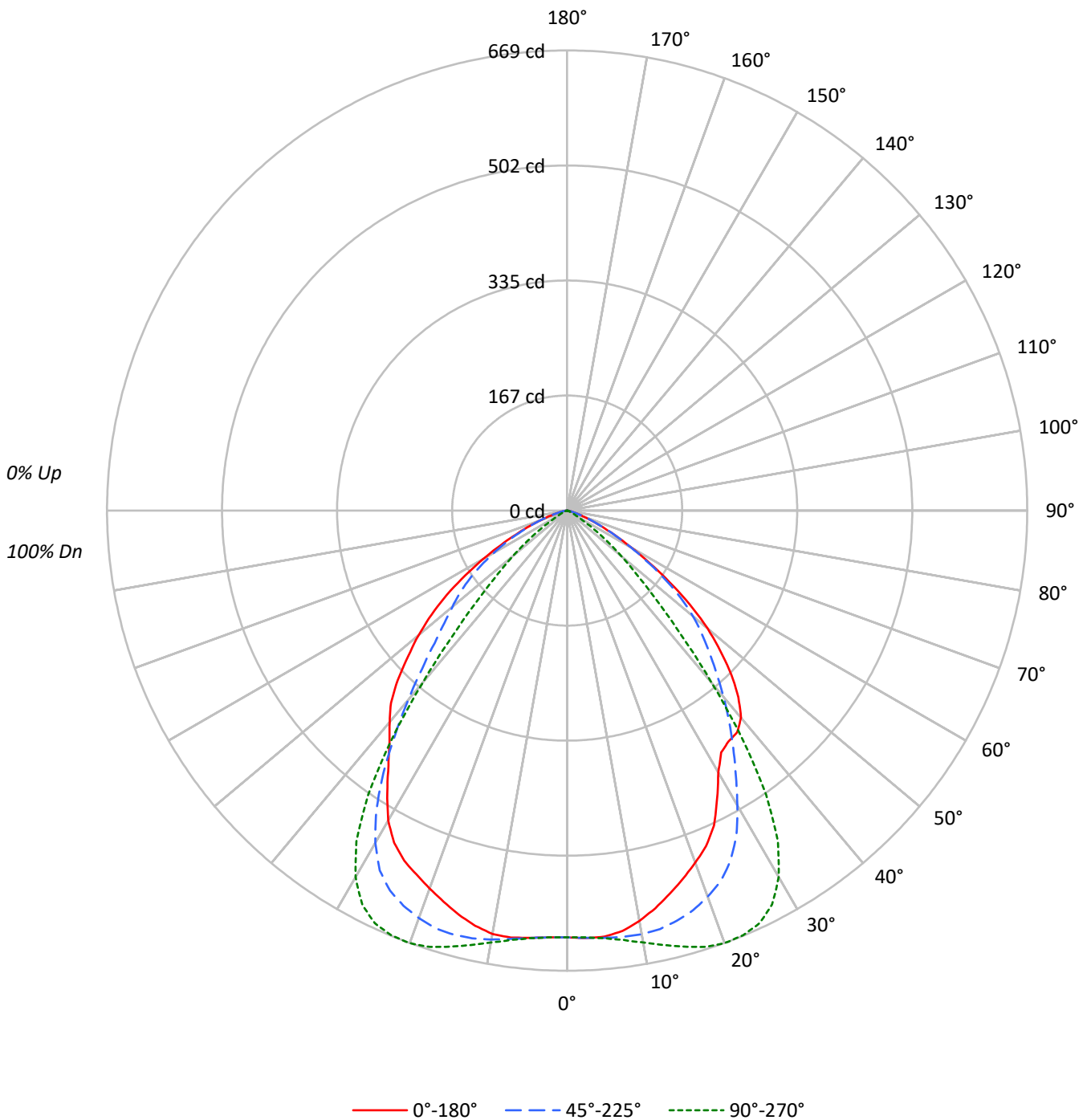
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	59.7	5.0
10°-20°	176.8	14.8
20°-30°	269.7	22.5
30°-40°	281.4	23.5
40°-50°	211.4	17.7
50°-60°	130.0	10.9
60°-70°	52.9	4.4
70°-80°	12.5	1.0
80°-90°	1.7	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°	506.1	42.3
0°-40°	787.5	65.8
0°-60°	1128.9	94.4
0°-90°	1196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	620	620	620	620	620	
5°	622	623	624	623	623	59
15°	577	617	656	638	608	162
25°	505	562	662	610	561	230
35°	409	421	504	466	453	258
45°	338	292	182	272	348	258
55°	182	173	48	173	214	164
65°	57	58	7	77	82	59
75°	10	10	1	18	18	12
85°	1	1	0	2	3	1
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°	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4
2.5°	622.1	621.1	622.1	622.1	622.4	621.8	622.1	622.4	621.8	621.8	621.8
5°	621.8	621.1	621.8	621.4	622.1	622.1	622.8	622.8	623.4	623.4	624.4
7.5°	616.5	615.2	616.5	617.5	618.1	619.5	621.1	622.4	623.7	625.1	626.7
10°	605.6	605.6	606.6	608.6	610.6	612.9	615.8	619.1	622.4	625.4	628.3
12.5°	592.1	591.1	593.1	595.7	598.7	602.3	606.9	611.9	617.2	623.1	627.7
15°	576.6	575.7	578.0	580.6	584.2	589.5	595.1	601.7	609.2	617.2	624.7
17.5°	560.8	560.5	562.8	566.4	569.4	575.0	582.2	590.1	598.7	609.2	619.1
20°	544.7	544.4	546.7	549.6	553.6	558.9	566.1	575.3	585.5	597.4	608.9
22.5°	527.9	528.2	530.2	533.5	536.8	542.4	550.0	559.2	570.4	583.2	596.1
25°	505.2	503.5	506.2	509.5	515.1	519.7	526.9	536.8	548.3	561.8	577.0
27.5°	472.2	471.9	474.2	477.2	482.1	487.7	495.6	505.8	518.0	532.8	547.7
30°	439.3	440.0	441.0	443.9	447.2	452.8	460.7	469.3	480.8	495.0	510.8
32.5°	416.9	416.9	418.2	420.2	422.5	425.5	431.1	437.3	446.2	456.1	467.6
35°	409.3	408.0	409.3	409.7	410.0	410.7	411.7	413.6	416.6	420.9	425.2
37.5°	406.1	405.1	405.1	403.8	402.1	400.1	397.5	394.5	391.2	387.0	383.7
40°	393.2	392.6	391.9	390.6	387.0	383.0	378.7	371.8	364.2	353.7	343.2
42.5°	368.5	367.9	367.5	364.9	361.6	357.0	352.0	344.8	335.3	321.7	306.6
45°	337.9	336.6	335.6	333.3	331.0	327.0	322.4	315.8	306.3	292.4	274.3
47.5°	302.3	301.7	301.3	300.3	298.0	295.7	292.8	287.5	278.9	265.8	247.0
50°	266.4	265.1	265.8	265.4	264.4	262.8	260.8	257.2	250.6	238.8	221.6
52.5°	225.3	225.3	224.9	225.9	226.2	225.9	226.2	222.3	216.7	207.8	193.3
55°	182.4	182.4	183.4	184.8	186.1	186.4	186.1	184.4	180.5	173.2	160.4
57.5°	142.3	141.6	143.6	145.6	146.9	148.2	147.2	145.9	143.6	137.7	127.8
60°	108.3	108.3	109.7	111.0	112.3	113.6	113.3	113.0	111.0	107.0	99.1
62.5°	79.7	80.0	80.0	81.0	82.3	83.7	84.6	83.7	82.7	80.0	74.8
65°	57.0	56.6	57.0	58.0	59.0	60.3	60.9	60.6	59.6	57.6	53.7
67.5°	38.2	37.9	39.2	39.5	40.2	41.5	41.2	41.5	41.2	39.5	36.2
70°	25.0	24.4	25.0	24.7	25.7	26.0	26.7	27.0	26.7	25.7	24.7
72.5°	15.5	15.1	15.5	15.8	16.1	16.5	17.1	17.1	16.8	16.1	14.8
75°	9.9	8.9	9.2	8.6	9.2	9.2	9.9	10.2	9.9	9.9	9.2
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.3	6.6	5.9	5.6
80°	3.0	3.0	3.3	3.3	3.3	3.6	3.3	3.3	3.3	3.6	2.6
82.5°	2.3	2.0	2.0	2.0	2.3	2.0	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.3	1.0	0.7	1.0	1.0	1.3	1.0	1.0	1.0	1.3
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.7	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4
2.5°	622.1	621.4	621.4	621.1	621.8	621.1	621.4	621.1	621.1	621.8	621.1
5°	624.4	624.7	624.1	623.7	624.7	624.7	624.7	624.1	624.1	624.4	624.1
7.5°	627.7	628.3	628.7	629.0	629.7	630.0	630.0	629.7	629.3	630.3	629.0
10°	631.3	632.3	634.3	635.3	636.9	636.9	637.6	637.6	636.9	637.6	637.2
12.5°	630.0	635.9	639.2	641.5	643.8	645.8	646.5	646.8	646.5	647.8	646.5
15°	632.3	637.2	642.5	646.5	650.7	653.0	653.7	656.3	657.0	657.3	655.4
17.5°	628.7	637.6	643.2	649.1	655.4	659.6	663.6	665.2	665.6	666.2	663.6
20°	620.4	630.3	638.9	647.5	654.7	661.3	664.6	669.2	667.9	670.5	666.9
22.5°	609.2	620.4	631.3	642.5	650.1	658.0	664.9	668.2	669.8	669.8	665.9
25°	591.5	604.6	616.5	628.0	639.5	649.1	657.0	661.9	662.9	662.6	658.0
27.5°	563.8	578.0	591.8	605.0	619.1	630.3	639.5	645.5	647.1	647.1	642.2
30°	525.6	540.7	554.3	570.1	584.6	597.1	609.9	615.2	618.1	618.1	612.5
32.5°	480.2	493.0	505.5	521.0	536.8	551.0	563.1	570.4	574.0	573.7	568.7
35°	430.8	437.0	446.6	458.1	472.2	485.4	497.3	504.2	510.5	510.1	505.5
37.5°	381.4	379.7	380.7	385.0	393.9	403.1	412.3	418.9	424.2	426.5	425.5
40°	332.9	324.4	316.1	313.2	313.8	317.1	322.1	327.0	332.9	335.9	337.2
42.5°	289.5	275.0	260.5	249.6	243.4	241.4	243.7	245.3	249.0	253.2	257.5
45°	254.6	235.1	216.0	199.2	188.7	182.4	181.1	182.4	184.4	188.7	194.3
47.5°	225.9	203.2	181.8	163.0	147.5	139.3	137.0	136.3	138.3	142.3	149.8
50°	200.6	177.8	154.1	132.4	116.3	107.0	103.7	102.4	104.7	107.7	114.6
52.5°	172.9	150.5	126.1	105.1	88.3	78.7	75.1	73.1	74.4	78.4	85.3
55°	142.9	122.2	100.1	78.4	62.2	53.4	49.1	47.8	49.1	53.4	60.3
57.5°	113.0	95.5	77.1	56.6	42.2	33.3	29.0	27.7	31.3	32.9	40.2
60°	88.3	74.1	58.3	41.5	29.0	22.1	17.8	16.8	18.4	21.4	27.3
62.5°	66.2	57.3	44.8	29.6	21.4	14.2	11.9	10.9	11.9	14.2	18.8
65°	48.1	41.2	31.3	21.7	14.5	10.5	7.9	7.2	8.2	9.9	13.8
67.5°	32.9	27.7	21.7	15.1	9.9	6.6	5.6	5.6	5.9	7.2	10.2
70°	21.4	18.1	13.8	9.9	6.6	4.9	4.3	3.6	4.3	5.3	6.9
72.5°	13.5	11.5	8.9	6.9	4.9	3.6	3.0	2.6	3.3	3.9	5.3
75°	8.2	6.3	4.6	3.6	2.6	2.6	2.6	1.3	1.6	2.6	3.3
77.5°	4.9	4.3	3.6	3.0	2.3	1.3	1.3	1.3	1.6	2.0	3.0
80°	2.6	2.3	1.6	1.6	1.3	1.0	1.3	1.0	0.7	1.6	2.0
82.5°	1.6	1.3	1.3	1.3	1.6	0.7	1.0	0.7	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.7	1.6	0.7	0.7	0.3	0.3	0.7	0.7
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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°	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4
2.5°	621.4	621.1	621.4	621.1	621.1	621.1	621.4	621.4	621.1	621.1	621.8
5°	624.1	624.1	624.1	623.7	623.4	623.4	624.1	624.1	623.1	624.1	624.1
7.5°	629.7	628.7	629.7	628.3	627.7	628.0	628.3	627.7	627.0	627.4	627.4
10°	636.9	635.9	635.9	634.9	633.9	633.3	632.6	631.0	629.3	629.0	627.7
12.5°	645.5	643.8	642.8	640.9	639.2	636.9	634.9	632.3	629.0	626.7	624.4
15°	654.0	651.4	649.1	645.8	642.2	638.2	633.9	629.7	624.4	619.8	615.8
17.5°	661.0	657.3	653.0	647.8	642.5	636.6	630.3	624.1	616.5	610.6	606.0
20°	663.3	658.0	652.4	645.5	638.6	630.3	622.4	614.2	605.6	599.4	594.1
22.5°	660.3	654.0	647.1	639.9	630.7	621.8	612.5	603.0	595.4	586.9	581.9
25°	652.1	644.5	636.9	628.3	619.5	609.6	599.7	589.8	580.6	576.0	569.7
27.5°	635.3	627.0	618.8	609.9	599.7	589.8	579.6	570.1	562.2	555.9	552.3
30°	605.6	596.1	586.5	577.0	568.1	557.9	548.3	540.4	532.5	527.6	524.0
32.5°	560.2	551.6	542.1	532.8	524.6	516.1	508.1	501.2	495.6	492.3	489.7
35°	498.9	490.4	483.1	476.5	469.6	466.0	461.1	457.1	454.8	453.5	453.2
37.5°	421.9	416.9	414.6	413.3	412.0	411.0	411.7	413.3	414.6	416.9	419.6
40°	339.5	343.8	345.1	349.7	354.0	359.6	365.9	373.1	379.0	386.6	391.9
42.5°	264.4	272.4	281.6	291.5	302.0	312.2	324.7	336.2	346.8	356.3	364.6
45°	203.2	215.4	229.2	243.4	257.5	272.4	287.5	301.7	314.2	324.4	332.9
47.5°	158.4	171.9	189.7	207.1	224.3	241.7	258.5	273.3	283.9	293.8	301.3
50°	125.5	141.0	160.4	180.5	199.2	217.7	235.5	249.3	259.8	267.7	273.3
52.5°	97.1	115.6	135.4	156.4	176.5	196.6	213.1	225.9	234.5	241.4	245.7
55°	72.4	90.6	111.6	133.4	153.8	173.2	188.7	199.9	207.5	211.4	213.7
57.5°	52.4	68.8	89.9	111.6	130.1	148.5	161.0	171.2	175.5	177.8	178.8
60°	38.2	53.4	72.1	90.9	108.3	123.2	134.0	141.0	144.2	145.6	145.2
62.5°	28.0	41.2	57.3	73.1	87.3	99.5	108.0	112.6	114.3	114.9	113.9
65°	21.4	31.6	45.4	57.6	68.5	77.4	83.7	86.6	87.6	87.3	86.6
67.5°	15.8	23.7	33.9	43.1	51.0	58.0	61.3	63.9	64.5	63.6	62.6
70°	11.2	17.5	24.7	31.0	36.9	40.8	44.5	44.8	44.8	44.5	43.8
72.5°	7.9	12.2	16.8	21.1	24.7	27.7	29.0	30.0	29.6	29.3	28.7
75°	5.3	7.6	12.2	13.2	16.5	17.5	18.8	18.8	19.1	18.1	18.1
77.5°	3.3	5.3	7.2	8.6	9.9	11.2	11.9	11.9	12.2	11.9	11.9
80°	2.0	3.3	3.9	5.9	5.9	6.9	7.2	7.6	6.9	7.9	6.9
82.5°	1.3	2.0	3.0	3.0	3.6	4.3	4.3	4.6	4.6	4.3	4.3
85°	1.0	1.3	1.6	2.0	2.0	2.3	2.0	2.0	2.3	2.6	2.3
87.5°	0.3	0.7	0.3	0.7	0.7	1.3	1.0	1.0	1.0	1.3	1.3
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°	620.4	620.4	620.4	620.4
2.5°	621.1	621.4	621.1	621.1
5°	624.1	623.7	624.1	623.4
7.5°	626.4	626.4	626.0	626.0
10°	626.4	625.1	625.1	625.1
12.5°	621.4	619.8	618.8	618.1
15°	612.9	609.9	608.6	608.3
17.5°	601.7	599.0	597.4	596.4
20°	588.8	586.2	584.2	584.6
22.5°	577.6	574.7	573.4	572.7
25°	566.4	562.8	561.8	561.2
27.5°	548.3	546.3	545.4	544.4
30°	520.7	519.7	518.0	520.3
32.5°	488.7	487.1	485.8	486.7
35°	453.5	452.5	453.5	452.8
37.5°	421.2	422.2	423.5	424.2
40°	395.8	399.5	400.8	401.4
42.5°	370.5	374.8	377.4	379.0
45°	339.2	343.5	346.4	348.4
47.5°	306.9	310.6	313.5	313.2
50°	277.6	279.6	280.9	282.2
52.5°	248.0	248.0	248.3	248.3
55°	214.4	213.7	213.4	213.7
57.5°	177.5	176.8	176.5	175.5
60°	143.9	141.9	140.6	140.6
62.5°	112.6	110.3	109.3	109.0
65°	84.6	84.3	82.3	82.0
67.5°	61.3	59.9	58.6	59.0
70°	43.1	41.2	41.2	40.5
72.5°	28.0	27.0	26.7	26.7
75°	17.5	17.5	16.8	18.1
77.5°	11.5	11.5	11.2	11.5
80°	6.9	6.9	6.9	6.6
82.5°	4.3	4.6	4.3	4.3
85°	2.3	2.6	2.0	3.0
87.5°	1.3	1.6	1.3	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)