

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: P246168

Luminaire Tested: **LSR8B10D010 EC8B10930 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246168
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: LSR8B10D010 EC8B10930 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 845.3 lumens
Efficiency: N/A
Efficacy: 82.9 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

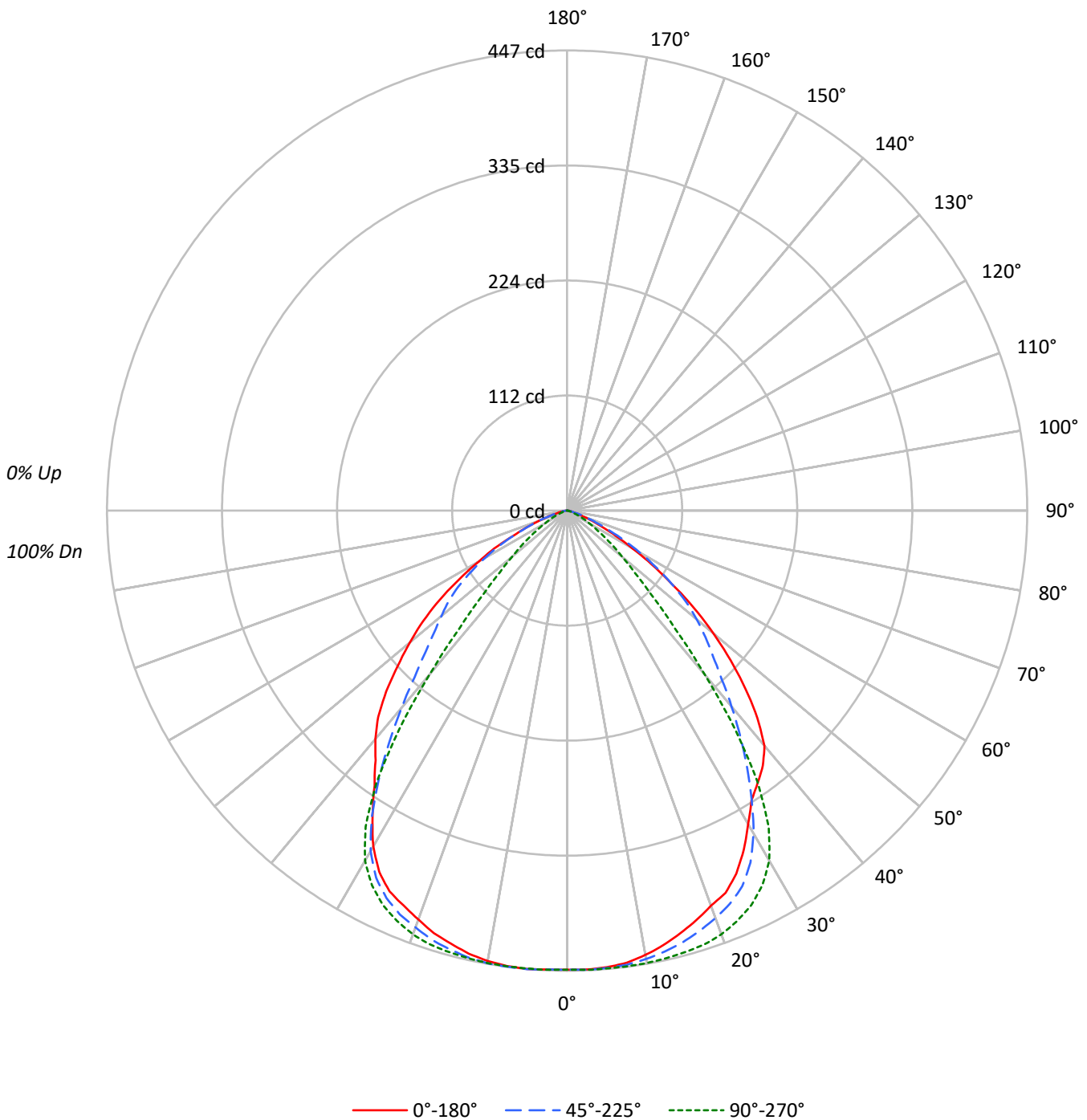
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	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	51	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°	42.6	5.0
10°-20°	123.6	14.6
20°-30°	187.6	22.2
30°-40°	197.0	23.3
40°-50°	147.7	17.5
50°-60°	94.8	11.2
60°-70°	40.5	4.8
70°-80°	9.6	1.1
80°-90°	1.8	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°	353.8	41.9
0°-40°	550.8	65.2
0°-60°	793.3	93.9
0°-90°	845.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	845.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	446	446	446	446	446	
5°	445	446	446	447	447	42
15°	425	434	444	441	436	120
25°	389	403	423	415	408	178
35°	323	305	323	319	326	203
45°	245	200	115	195	248	188
55°	124	124	43	129	151	112
65°	37	44	14	57	58	40
75°	6	7	2	12	11	8
85°	2	1	1	2	3	2
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°	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9
2.5°	446.2	446.7	446.5	446.5	446.2	446.5	446.5	446.9	446.9	446.5	446.2
5°	445.3	445.7	445.7	445.3	445.3	446.5	445.7	446.2	446.2	445.9	445.9
7.5°	443.1	443.1	444.0	443.4	443.4	444.0	443.8	444.3	444.8	445.0	445.0
10°	438.3	438.8	439.0	439.0	439.2	440.0	440.4	441.4	441.9	442.3	442.6
12.5°	432.4	433.0	433.3	433.0	433.7	434.7	436.0	437.1	437.9	438.8	439.5
15°	425.1	425.1	425.6	426.3	426.8	428.2	429.5	430.9	432.8	434.1	435.2
17.5°	417.2	417.7	418.5	418.5	419.4	421.8	422.5	424.6	426.8	428.0	430.4
20°	408.6	409.1	409.8	410.3	411.5	413.4	414.9	416.8	419.1	421.3	423.7
22.5°	401.9	401.0	401.4	401.9	403.1	404.8	406.5	408.8	411.3	413.4	415.8
25°	389.0	389.2	390.0	390.4	391.9	393.2	395.3	398.1	400.2	402.7	405.2
27.5°	371.5	371.7	373.0	373.0	374.2	376.5	377.8	380.1	383.0	385.4	388.5
30°	351.7	352.1	352.1	353.1	353.8	355.0	356.1	358.6	360.1	362.2	366.5
32.5°	333.5	333.9	333.7	333.5	332.7	332.5	332.3	332.7	333.2	333.9	335.6
35°	322.7	321.5	320.5	318.8	316.9	314.6	312.4	309.5	306.9	304.7	302.3
37.5°	312.4	312.2	310.7	308.3	304.5	300.2	295.2	288.9	282.7	276.0	269.5
40°	298.1	297.3	296.1	292.8	288.4	283.2	276.4	268.8	258.7	248.5	238.0
42.5°	273.6	273.9	272.4	269.8	265.7	260.6	253.8	245.4	234.6	222.4	208.7
45°	245.2	245.2	244.6	242.5	239.7	235.5	230.3	223.3	212.8	200.3	185.7
47.5°	215.5	215.7	215.0	214.4	213.3	210.6	206.8	201.6	194.2	182.2	167.6
50°	185.3	185.3	186.4	186.2	186.2	185.3	183.6	180.5	174.0	164.5	150.8
52.5°	155.1	155.6	156.3	157.3	158.5	160.4	158.5	157.1	153.0	145.5	133.8
55°	124.0	124.4	125.7	127.3	128.8	130.7	131.2	131.2	129.0	124.0	115.1
57.5°	97.4	96.7	97.6	99.1	101.0	102.9	104.4	106.0	105.8	102.5	95.3
60°	73.2	73.5	74.2	75.7	77.1	78.8	80.7	82.1	82.8	81.2	76.6
62.5°	53.4	53.4	54.4	55.8	56.5	58.9	60.1	60.8	61.5	61.3	58.4
65°	37.3	37.8	38.3	39.0	39.7	41.1	41.9	43.3	43.8	44.1	41.9
67.5°	26.3	25.6	26.1	26.6	27.2	28.2	29.7	29.7	30.4	30.4	28.9
70°	16.7	16.7	17.0	17.7	18.2	18.4	18.9	19.4	20.1	19.8	19.8
72.5°	11.2	11.0	11.2	11.5	11.8	12.4	12.4	12.7	13.1	13.5	12.4
75°	5.7	5.9	6.5	6.3	7.0	6.5	6.7	7.4	7.2	6.7	6.7
77.5°	4.8	4.8	4.8	4.6	5.0	5.0	4.8	5.3	5.0	5.0	4.8
80°	3.4	3.6	3.4	3.1	3.4	3.1	3.1	3.1	3.1	3.1	2.9
82.5°	2.7	2.1	2.4	2.1	2.4	2.4	2.1	1.9	1.9	2.1	1.9
85°	1.9	1.5	1.7	1.7	1.5	1.5	1.5	1.5	1.5	1.2	1.2
87.5°	1.2	0.7	0.7	0.7	1.0	1.0	1.0	0.7	1.0	1.0	0.4
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°	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9
2.5°	446.7	446.5	446.9	446.7	446.7	446.5	446.7	446.5	446.9	445.9	446.2
5°	446.7	446.2	446.5	446.7	446.9	446.5	446.5	446.5	446.9	446.5	446.7
7.5°	445.7	445.5	446.2	446.7	446.5	446.2	446.7	446.5	446.9	446.7	447.2
10°	443.8	444.0	444.5	445.3	445.5	445.7	446.2	446.2	446.9	445.9	446.5
12.5°	440.9	441.9	443.1	443.6	444.5	444.5	445.0	445.3	445.7	445.5	446.2
15°	437.3	438.5	440.0	441.2	442.3	443.1	443.8	444.0	444.8	444.0	444.3
17.5°	433.0	434.5	436.6	438.1	440.0	440.7	441.7	442.1	442.9	442.3	442.6
20°	427.1	428.8	431.1	433.3	434.5	436.2	437.3	438.1	438.5	438.1	438.3
22.5°	418.7	421.0	424.2	425.9	428.2	429.7	429.9	431.6	432.8	431.6	432.0
25°	408.8	411.3	413.6	417.2	419.4	421.0	422.7	423.0	424.2	424.0	423.7
27.5°	392.6	395.7	399.7	402.7	405.5	408.2	410.1	410.5	411.7	411.3	411.5
30°	370.3	373.6	377.6	382.0	386.1	388.8	391.1	392.8	394.0	393.2	393.0
32.5°	338.8	342.0	346.2	350.6	355.5	359.3	362.2	364.3	365.8	365.3	364.1
35°	302.6	303.6	306.1	309.7	313.8	317.9	320.5	323.0	324.6	325.1	325.1
37.5°	265.5	262.3	260.4	260.4	262.9	264.6	266.9	268.4	270.9	272.0	272.6
40°	229.6	222.4	215.7	210.6	207.3	207.0	207.0	207.8	210.2	213.3	216.1
42.5°	197.5	186.0	175.7	166.4	159.6	155.8	154.1	154.4	156.3	159.2	164.0
45°	171.8	157.5	144.6	133.3	124.2	118.3	115.4	115.1	116.6	119.9	125.2
47.5°	152.0	136.6	122.1	109.2	99.3	92.9	89.6	88.6	89.6	92.6	98.9
50°	135.5	119.7	104.6	91.2	80.7	74.0	70.8	69.6	70.8	73.5	79.7
52.5°	120.2	103.9	89.8	76.8	65.6	59.9	56.5	55.8	56.5	59.6	64.7
55°	102.5	88.6	74.7	61.8	51.9	46.2	43.6	42.8	43.6	46.4	51.7
57.5°	85.0	73.0	60.8	49.1	40.7	35.6	33.3	32.3	34.0	35.9	42.1
60°	68.7	59.1	48.9	38.6	31.6	27.0	25.1	24.9	25.3	27.8	32.1
62.5°	53.8	46.0	37.8	29.5	23.7	21.7	19.4	19.2	19.6	21.1	24.4
65°	38.8	33.7	27.6	21.5	17.0	14.3	13.5	13.7	14.1	15.1	18.2
67.5°	27.0	23.4	19.2	15.1	11.8	10.5	9.5	9.3	9.5	11.2	12.9
70°	18.2	16.0	12.9	11.5	8.2	6.5	6.7	5.9	7.0	7.0	8.4
72.5°	12.0	10.5	8.6	6.7	5.7	4.6	4.6	4.3	4.8	5.0	6.3
75°	6.3	4.8	4.8	3.4	2.4	1.2	2.1	1.9	1.7	1.9	2.4
77.5°	4.3	3.6	3.4	2.7	2.4	1.9	1.9	1.9	1.9	2.1	2.4
80°	2.7	2.7	1.9	1.7	1.5	1.2	1.5	1.5	1.5	1.5	1.7
82.5°	1.7	1.5	1.5	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.5
85°	1.5	1.0	1.0	0.7	1.0	1.7	0.7	1.0	1.0	1.0	0.7
87.5°	0.4	0.7	0.7	0.7	0.4	0.2	0.4	0.7	0.7	1.2	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9
2.5°	446.7	446.9	446.9	446.7	446.7	446.2	447.2	446.5	446.7	447.6	446.9
5°	447.2	447.4	447.4	447.2	447.2	447.2	447.4	447.4	447.2	446.9	447.4
7.5°	448.1	447.8	447.8	447.4	447.4	446.9	447.4	446.7	447.2	446.7	447.4
10°	446.9	447.2	446.9	446.7	446.7	446.5	446.5	445.7	445.9	445.3	445.7
12.5°	446.2	445.9	445.9	445.5	445.0	444.5	444.3	443.6	443.6	441.9	442.6
15°	444.3	444.5	443.8	442.9	442.3	441.2	440.7	439.8	438.8	437.6	437.9
17.5°	442.6	441.9	440.9	440.0	438.1	437.1	436.2	434.7	434.3	432.8	432.4
20°	437.6	437.1	436.0	434.3	433.0	430.9	429.9	428.4	427.3	425.9	425.1
22.5°	431.1	430.7	429.2	427.5	425.6	424.6	423.7	421.0	419.8	418.5	418.2
25°	423.0	422.3	420.8	418.9	417.9	415.3	414.3	412.4	412.0	410.5	410.3
27.5°	410.5	409.6	407.9	405.5	403.8	402.1	401.2	399.7	399.3	397.8	397.6
30°	391.9	390.7	387.3	386.4	383.5	381.8	381.8	379.9	380.1	379.1	379.1
32.5°	362.4	360.5	357.8	355.9	354.0	353.1	353.1	352.3	352.9	352.9	353.3
35°	323.4	320.7	319.4	318.1	318.1	319.0	322.0	322.7	324.1	325.3	326.3
37.5°	273.4	273.2	274.8	276.2	279.8	283.9	288.9	293.3	297.3	300.2	303.0
40°	219.3	225.2	230.0	236.8	242.2	250.1	259.3	266.7	273.6	278.7	283.9
42.5°	171.2	178.8	188.9	198.6	208.5	219.3	231.3	241.6	250.7	257.6	263.1
45°	133.3	143.8	156.0	168.5	181.3	194.6	207.0	217.6	227.2	234.4	239.9
47.5°	107.5	118.9	132.8	146.5	160.9	175.0	188.9	198.0	205.8	211.6	216.7
50°	88.8	101.0	115.6	131.2	145.5	159.6	171.6	180.5	187.0	192.0	195.1
52.5°	74.2	87.1	102.7	118.3	132.6	145.5	156.3	163.0	168.3	171.8	174.8
55°	61.3	73.8	88.3	102.9	117.0	129.3	138.1	143.2	147.2	149.3	151.0
57.5°	50.0	61.5	74.9	88.3	100.6	110.6	117.5	122.5	124.4	126.1	125.9
60°	39.2	50.0	62.2	73.8	84.3	92.4	97.4	100.3	101.8	102.5	102.0
62.5°	30.8	40.7	50.0	60.1	67.7	74.7	79.5	79.5	80.2	80.4	81.2
65°	23.0	30.4	38.6	46.0	52.1	56.7	59.4	60.1	61.1	60.8	60.3
67.5°	17.0	22.5	28.5	34.0	38.3	41.1	43.0	44.7	44.5	44.1	43.8
70°	11.8	15.4	20.6	24.0	27.0	29.9	30.4	30.6	30.8	31.2	30.6
72.5°	8.2	10.8	13.7	16.5	18.4	19.6	20.9	21.1	21.1	21.1	20.9
75°	4.0	5.5	8.2	9.3	11.0	11.5	12.4	12.4	13.1	12.2	12.0
77.5°	3.6	4.3	5.7	6.7	7.4	8.2	8.4	9.1	8.9	8.4	8.6
80°	2.1	2.7	3.6	4.0	5.0	5.3	5.5	5.7	5.5	5.7	5.7
82.5°	1.7	1.9	2.4	2.4	3.1	3.1	3.4	3.4	3.6	3.6	3.6
85°	1.0	1.7	1.5	2.9	1.9	1.9	2.4	2.9	2.4	2.4	2.9
87.5°	1.0	1.0	0.7	1.0	1.0	1.0	1.2	1.5	1.5	1.7	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):

	165°	170°	175°	180°
0°	445.9	445.9	445.9	445.9
2.5°	446.7	447.2	446.5	446.2
5°	447.4	447.4	446.9	446.9
7.5°	447.4	447.4	446.7	446.2
10°	445.5	445.5	444.8	444.3
12.5°	441.9	441.9	441.7	440.9
15°	437.3	437.3	436.4	435.6
17.5°	431.1	431.6	430.4	430.4
20°	424.4	424.2	423.2	422.7
22.5°	417.5	417.0	416.8	415.3
25°	410.1	409.6	408.8	408.2
27.5°	397.4	397.2	396.4	395.5
30°	378.0	377.8	376.8	376.8
32.5°	352.9	352.6	351.7	351.9
35°	326.8	327.7	327.2	326.3
37.5°	304.9	305.7	306.1	305.7
40°	286.8	288.9	289.2	289.7
42.5°	267.4	270.3	271.2	271.7
45°	244.2	246.8	249.0	248.5
47.5°	220.5	222.4	224.3	222.9
50°	197.7	199.0	199.7	199.7
52.5°	176.2	176.2	176.0	176.2
55°	151.6	151.6	150.6	151.0
57.5°	125.7	126.1	125.4	124.2
60°	101.8	100.6	100.1	99.3
62.5°	79.3	79.3	77.6	79.7
65°	59.4	58.6	58.0	57.7
67.5°	43.0	42.8	42.1	41.9
70°	30.4	29.5	29.3	28.7
72.5°	20.4	20.4	19.8	19.8
75°	12.4	11.2	11.0	11.2
77.5°	8.6	8.4	8.4	8.2
80°	5.7	5.5	5.9	5.3
82.5°	3.6	3.8	3.6	3.8
85°	2.4	2.9	2.7	2.7
87.5°	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)