

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: P244224

Luminaire Tested: **LSR8B10D010 EC8B10930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244224
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: LSR8B10D010 EC8B10930 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: 989.8 lumens
Efficiency: N/A
Efficacy: 97.0 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

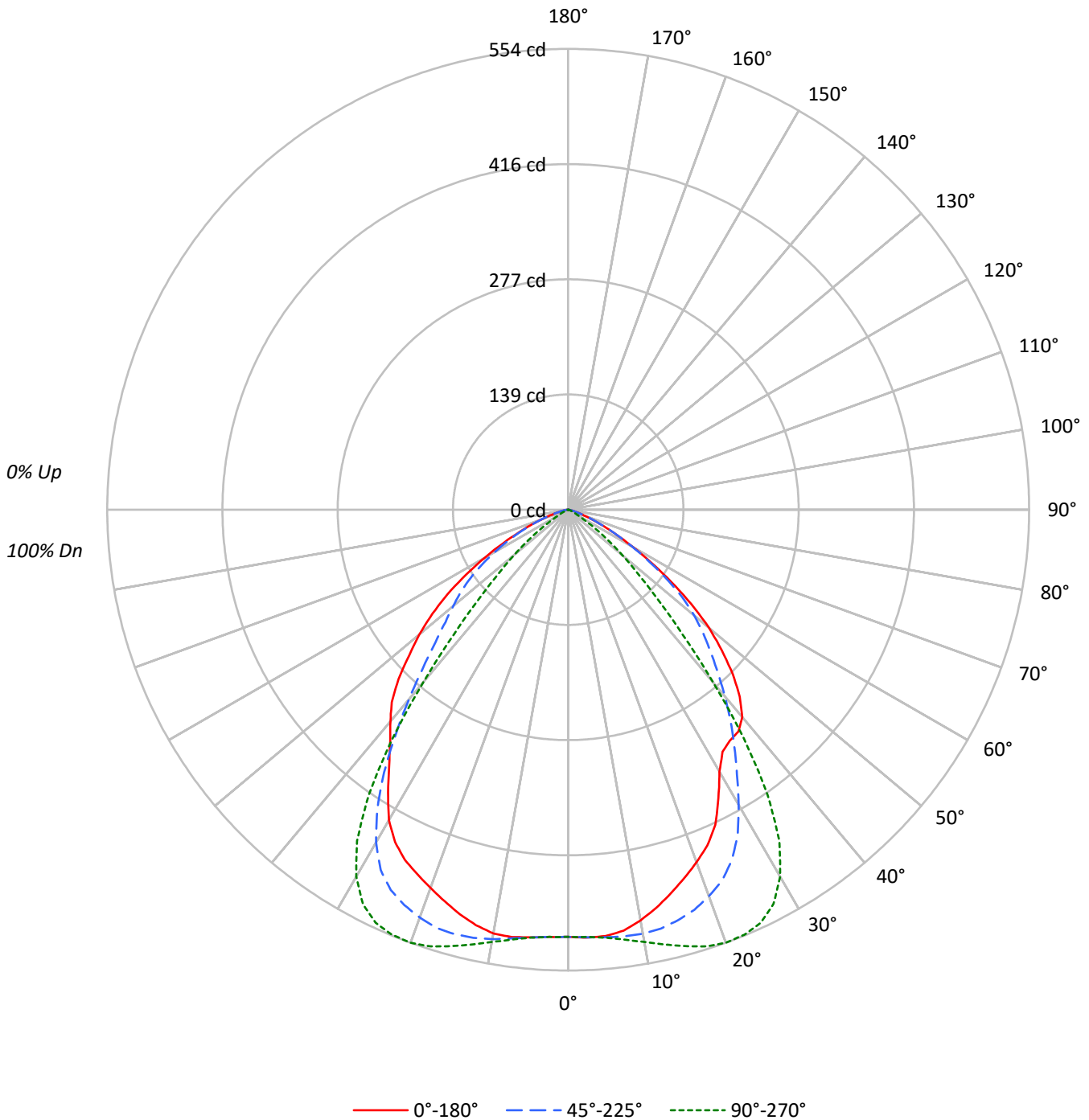
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	49.4	5.0
10°-20°	146.3	14.8
20°-30°	223.2	22.5
30°-40°	232.9	23.5
40°-50°	174.9	17.7
50°-60°	107.6	10.9
60°-70°	43.8	4.4
70°-80°	10.3	1.0
80°-90°	1.4	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°	418.8	42.3
0°-40°	651.7	65.8
0°-60°	934.3	94.4
0°-90°	989.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	514	514	514	514	514	
5°	514	516	516	516	516	49
15°	477	511	543	528	503	134
25°	418	465	548	504	464	190
35°	339	348	417	386	375	214
45°	280	242	151	225	288	213
55°	151	143	40	143	177	136
65°	47	48	6	64	68	49
75°	8	8	1	14	15	10
85°	1	1	0	2	2	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°	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5
2.5°	514.9	514.1	514.9	514.9	515.1	514.5	514.9	515.1	514.5	514.5	514.5
5°	514.5	514.1	514.5	514.3	514.9	514.9	515.4	515.4	516.0	516.0	516.8
7.5°	510.3	509.2	510.3	511.1	511.6	512.6	514.1	515.1	516.2	517.3	518.7
10°	501.2	501.2	502.1	503.7	505.3	507.3	509.7	512.4	515.1	517.6	520.0
12.5°	490.1	489.2	490.9	493.0	495.5	498.5	502.3	506.5	510.7	515.7	519.5
15°	477.2	476.4	478.3	480.6	483.5	487.9	492.6	497.9	504.2	510.7	517.0
17.5°	464.2	463.9	465.8	468.8	471.3	475.9	481.9	488.4	495.5	504.2	512.4
20°	450.9	450.5	452.4	454.9	458.2	462.5	468.6	476.2	484.6	494.5	504.0
22.5°	436.9	437.2	438.9	441.6	444.3	448.8	455.1	462.7	472.1	482.7	493.4
25°	418.1	416.8	418.9	421.6	426.3	430.1	436.1	444.3	453.8	465.0	477.5
27.5°	390.9	390.6	392.5	394.9	399.1	403.7	410.2	418.7	428.8	441.0	453.2
30°	363.5	364.1	365.0	367.5	370.2	374.8	381.4	388.4	398.0	409.6	422.7
32.5°	345.0	345.0	346.2	347.7	349.6	352.1	356.8	362.0	369.4	377.4	387.1
35°	338.8	337.6	338.8	339.1	339.3	339.9	340.7	342.4	344.8	348.3	351.9
37.5°	336.1	335.3	335.3	334.2	332.8	331.1	329.0	326.5	323.9	320.3	317.6
40°	325.4	324.9	324.3	323.3	320.3	317.0	313.4	307.7	301.4	292.7	284.1
42.5°	305.0	304.5	304.1	302.0	299.3	295.5	291.3	285.4	277.4	266.2	253.8
45°	279.7	278.6	277.8	275.9	274.0	270.6	266.8	261.4	253.5	242.0	227.0
47.5°	250.2	249.6	249.4	248.5	246.6	244.7	242.4	238.0	230.8	219.9	204.5
50°	220.5	219.4	219.9	219.7	218.8	217.5	215.9	212.9	207.4	197.6	183.4
52.5°	186.4	186.4	186.2	187.0	187.2	187.0	187.2	184.0	179.4	172.0	160.0
55°	151.0	151.0	151.8	152.9	154.0	154.2	154.0	152.7	149.3	143.4	132.7
57.5°	117.7	117.3	118.8	120.5	121.5	122.6	121.9	120.7	118.8	113.9	105.7
60°	89.7	89.7	90.8	91.8	92.9	94.1	93.7	93.5	91.8	88.6	82.1
62.5°	65.9	66.3	66.3	67.0	68.2	69.3	70.1	69.3	68.4	66.3	61.9
65°	47.2	46.9	47.2	48.0	48.8	49.9	50.4	50.1	49.3	47.6	44.4
67.5°	31.6	31.4	32.4	32.7	33.3	34.3	34.1	34.3	34.1	32.7	29.9
70°	20.7	20.2	20.7	20.4	21.3	21.5	22.1	22.3	22.1	21.3	20.4
72.5°	12.8	12.6	12.8	13.1	13.3	13.7	14.1	14.1	13.9	13.3	12.2
75°	8.2	7.4	7.6	7.1	7.6	7.6	8.2	8.4	8.2	8.2	7.6
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.2	5.5	4.9	4.6
80°	2.5	2.5	2.7	2.7	2.7	3.0	2.7	2.7	2.7	3.0	2.1
82.5°	1.9	1.7	1.7	1.7	1.9	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.8	1.1	0.8	0.6	0.8	0.8	1.1	0.8	0.8	0.8	1.1
87.5°	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.6	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°	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5
2.5°	514.9	514.3	514.3	514.1	514.5	514.1	514.3	514.1	514.1	514.5	514.1
5°	516.8	517.0	516.4	516.2	517.0	517.0	517.0	516.4	516.4	516.8	516.4
7.5°	519.5	520.0	520.3	520.6	521.2	521.4	521.4	521.2	520.8	521.7	520.6
10°	522.5	523.3	525.0	525.7	527.1	527.1	527.7	527.7	527.1	527.7	527.4
12.5°	521.4	526.3	529.0	530.9	532.8	534.5	535.1	535.3	535.1	536.2	535.1
15°	523.3	527.4	531.8	535.1	538.5	540.4	541.0	543.2	543.8	544.0	542.3
17.5°	520.3	527.7	532.3	537.2	542.3	545.9	549.2	550.5	550.9	551.4	549.2
20°	513.5	521.7	528.8	535.8	541.9	547.3	550.1	553.9	552.8	554.9	552.0
22.5°	504.2	513.5	522.5	531.8	538.1	544.6	550.3	553.0	554.3	554.3	551.1
25°	489.5	500.4	510.3	519.8	529.3	537.2	543.8	547.8	548.6	548.4	544.6
27.5°	466.7	478.3	489.8	500.6	512.4	521.7	529.3	534.2	535.6	535.6	531.5
30°	434.9	447.5	458.7	471.8	483.8	494.1	504.8	509.2	511.6	511.6	506.9
32.5°	397.4	408.0	418.4	431.1	444.3	456.0	466.1	472.1	475.1	474.7	470.7
35°	356.5	361.6	369.6	379.1	390.9	401.8	411.5	417.2	422.5	422.2	418.4
37.5°	315.7	314.2	315.1	318.6	326.0	333.6	341.2	346.7	351.1	353.0	352.1
40°	275.5	268.5	261.6	259.2	259.7	262.4	266.6	270.6	275.5	278.0	279.1
42.5°	239.6	227.6	215.6	206.6	201.4	199.8	201.7	203.0	206.0	209.6	213.1
45°	210.6	194.6	178.8	164.9	156.2	151.0	149.9	151.0	152.7	156.2	160.9
47.5°	187.0	168.2	150.4	135.0	122.1	115.2	113.3	112.9	114.5	117.7	124.0
50°	166.0	147.2	127.6	109.5	96.2	88.6	85.9	84.7	86.7	89.1	94.8
52.5°	143.0	124.5	104.4	87.0	73.1	65.1	62.1	60.5	61.5	64.9	70.6
55°	118.3	101.1	82.8	64.9	51.6	44.2	40.6	39.6	40.6	44.2	49.9
57.5°	93.5	79.0	63.8	46.9	34.9	27.6	24.0	22.9	25.9	27.2	33.3
60°	73.1	61.3	48.2	34.3	24.0	18.3	14.7	13.9	15.2	17.7	22.6
62.5°	54.8	47.4	37.1	24.5	17.7	11.8	9.9	9.0	9.9	11.8	15.6
65°	39.8	34.1	25.9	17.9	12.0	8.7	6.5	5.9	6.8	8.2	11.4
67.5°	27.2	22.9	17.9	12.6	8.2	5.5	4.6	4.6	4.9	5.9	8.4
70°	17.7	15.0	11.4	8.2	5.5	4.0	3.6	3.0	3.6	4.4	5.7
72.5°	11.2	9.5	7.4	5.7	4.0	3.0	2.5	2.1	2.7	3.3	4.4
75°	6.8	5.2	3.8	3.0	2.1	2.1	2.1	1.1	1.3	2.1	2.7
77.5°	4.0	3.6	3.0	2.5	1.9	1.1	1.1	1.1	1.3	1.7	2.5
80°	2.1	1.9	1.3	1.3	1.1	0.8	1.1	0.8	0.6	1.3	1.7
82.5°	1.3	1.1	1.1	1.1	1.3	0.6	0.8	0.6	0.8	1.1	0.8
85°	0.8	0.8	0.8	0.6	1.3	0.6	0.6	0.2	0.2	0.6	0.6
87.5°	0.0	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5
2.5°	514.3	514.1	514.3	514.1	514.1	514.1	514.3	514.3	514.1	514.1	514.5
5°	516.4	516.4	516.4	516.2	516.0	516.0	516.4	516.4	515.7	516.4	516.4
7.5°	521.2	520.3	521.2	520.0	519.5	519.8	520.0	519.5	518.9	519.2	519.2
10°	527.1	526.3	526.3	525.5	524.6	524.2	523.6	522.3	520.8	520.6	519.5
12.5°	534.2	532.8	532.0	530.3	529.0	527.1	525.5	523.3	520.6	518.7	516.8
15°	541.3	539.1	537.2	534.5	531.5	528.2	524.6	521.2	516.8	513.0	509.7
17.5°	547.0	544.0	540.4	536.2	531.8	526.9	521.7	516.4	510.3	505.3	501.5
20°	549.0	544.6	540.0	534.2	528.4	521.7	515.1	508.4	501.2	496.0	491.7
22.5°	546.5	541.3	535.6	529.6	521.9	514.5	506.9	499.1	492.8	485.7	481.6
25°	539.6	533.4	527.1	520.0	512.6	504.4	496.4	488.2	480.6	476.6	471.5
27.5°	525.7	518.9	512.2	504.8	496.4	488.2	479.7	471.8	465.2	460.1	457.0
30°	501.2	493.4	485.4	477.5	470.1	461.7	453.8	447.3	440.8	436.6	433.6
32.5°	463.6	456.6	448.6	441.0	434.2	427.1	420.6	414.9	410.2	407.5	405.2
35°	413.0	405.8	399.9	394.4	388.7	385.6	381.6	378.3	376.4	375.3	375.1
37.5°	349.2	345.0	343.1	342.0	341.0	340.1	340.7	342.0	343.1	345.0	347.3
40°	281.0	284.5	285.6	289.4	293.0	297.6	302.8	308.8	313.7	319.9	324.3
42.5°	218.8	225.4	233.1	241.2	250.0	258.4	268.7	278.2	287.0	294.9	301.8
45°	168.2	178.2	189.7	201.4	213.1	225.4	238.0	249.6	260.1	268.5	275.5
47.5°	131.0	142.3	156.9	171.4	185.6	200.1	214.0	226.2	235.0	243.1	249.4
50°	103.8	116.7	132.7	149.3	164.9	180.1	194.8	206.4	215.0	221.6	226.2
52.5°	80.4	95.6	112.0	129.5	146.1	162.8	176.3	187.0	194.0	199.8	203.3
55°	60.0	75.0	92.4	110.4	127.2	143.4	156.2	165.5	171.7	175.0	176.9
57.5°	43.4	56.9	74.4	92.4	107.6	123.0	133.3	141.7	145.3	147.2	148.0
60°	31.6	44.2	59.6	75.2	89.7	101.9	111.0	116.7	119.4	120.5	120.2
62.5°	23.2	34.1	47.4	60.5	72.2	82.3	89.3	93.3	94.6	95.2	94.3
65°	17.7	26.1	37.7	47.6	56.7	64.0	69.3	71.6	72.5	72.2	71.6
67.5°	13.1	19.6	28.0	35.8	42.3	48.0	50.7	52.9	53.5	52.6	51.8
70°	9.3	14.5	20.4	25.7	30.5	33.9	36.8	37.1	37.1	36.8	36.2
72.5°	6.5	10.1	13.9	17.5	20.4	22.9	24.0	24.8	24.5	24.2	23.8
75°	4.4	6.3	10.1	10.9	13.7	14.5	15.6	15.6	15.8	15.0	15.0
77.5°	2.7	4.4	5.9	7.1	8.2	9.3	9.9	9.9	10.1	9.9	9.9
80°	1.7	2.7	3.3	4.9	4.9	5.7	5.9	6.3	5.7	6.5	5.7
82.5°	1.1	1.7	2.5	2.5	3.0	3.6	3.6	3.8	3.8	3.6	3.6
85°	0.8	1.1	1.3	1.7	1.7	1.9	1.7	1.7	1.9	2.1	1.9
87.5°	0.2	0.6	0.2	0.6	0.6	1.1	0.8	0.8	0.8	1.1	1.1
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°	513.5	513.5	513.5	513.5
2.5°	514.1	514.3	514.1	514.1
5°	516.4	516.2	516.4	516.0
7.5°	518.4	518.4	518.1	518.1
10°	518.4	517.3	517.3	517.3
12.5°	514.3	513.0	512.2	511.6
15°	507.3	504.8	503.7	503.4
17.5°	497.9	495.8	494.5	493.6
20°	487.3	485.2	483.5	483.8
22.5°	478.1	475.6	474.5	474.0
25°	468.8	465.8	465.0	464.4
27.5°	453.8	452.2	451.3	450.5
30°	430.9	430.1	428.8	430.7
32.5°	404.5	403.1	402.0	402.9
35°	375.3	374.5	375.3	374.8
37.5°	348.6	349.4	350.5	351.1
40°	327.7	330.6	331.7	332.3
42.5°	306.6	310.2	312.3	313.7
45°	280.7	284.3	286.8	288.3
47.5°	254.0	257.0	259.5	259.2
50°	229.8	231.4	232.5	233.6
52.5°	205.3	205.3	205.5	205.5
55°	177.5	176.9	176.7	176.9
57.5°	146.9	146.4	146.1	145.3
60°	119.2	117.5	116.4	116.4
62.5°	93.3	91.4	90.5	90.2
65°	70.1	69.7	68.2	67.8
67.5°	50.7	49.7	48.5	48.8
70°	35.8	34.1	34.1	33.5
72.5°	23.2	22.3	22.1	22.1
75°	14.5	14.5	13.9	15.0
77.5°	9.5	9.5	9.3	9.5
80°	5.7	5.7	5.7	5.5
82.5°	3.6	3.8	3.6	3.6
85°	1.9	2.1	1.7	2.5
87.5°	1.1	1.3	1.1	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)