

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: P244657

Luminaire Tested: **LSR8B15D010 EC8B159730 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244657
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 EC8B159730 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1154.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

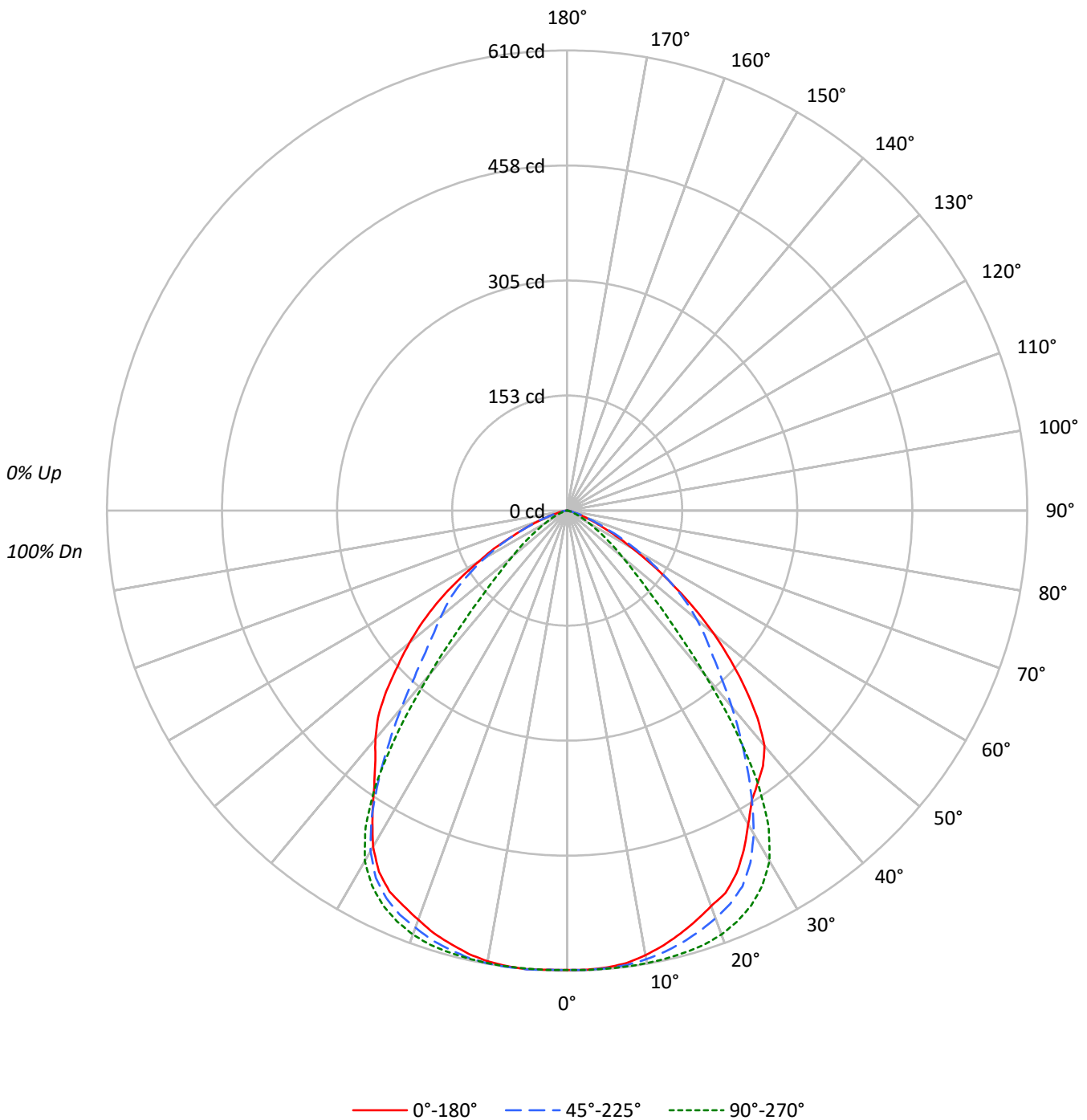
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	58.1	5.0
10°-20°	168.8	14.6
20°-30°	256.1	22.2
30°-40°	269.0	23.3
40°-50°	201.7	17.5
50°-60°	129.4	11.2
60°-70°	55.4	4.8
70°-80°	13.1	1.1
80°-90°	2.4	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°	483.0	41.9
0°-40°	752.0	65.2
0°-60°	1083.1	93.9
0°-90°	1154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1154.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	609	609	609	609	609	
5°	608	609	610	610	610	58
15°	580	592	606	602	595	164
25°	531	550	578	567	557	243
35°	441	416	441	436	446	277
45°	335	274	157	266	339	256
55°	169	169	58	176	206	154
65°	51	60	19	78	79	54
75°	8	9	3	16	15	11
85°	3	2	1	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°	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9
2.5°	609.2	609.9	609.5	609.5	609.2	609.5	609.5	610.2	610.2	609.5	609.2
5°	607.9	608.5	608.5	607.9	607.9	609.5	608.5	609.2	609.2	608.9	608.9
7.5°	605.0	605.0	606.3	605.3	605.3	606.3	605.9	606.6	607.2	607.6	607.6
10°	598.4	599.1	599.4	599.4	599.7	600.7	601.4	602.7	603.3	604.0	604.3
12.5°	590.2	591.2	591.6	591.2	592.2	593.5	595.2	596.8	597.8	599.1	600.1
15°	580.4	580.4	581.1	582.1	582.7	584.7	586.3	588.3	590.9	592.5	594.2
17.5°	569.7	570.3	571.3	571.3	572.6	575.9	576.8	579.8	582.7	584.4	587.6
20°	557.9	558.5	559.5	560.2	561.8	564.4	566.4	569.0	572.3	575.2	578.5
22.5°	548.7	547.4	548.1	548.7	550.4	552.7	555.0	558.2	561.5	564.4	567.7
25°	531.1	531.4	532.4	533.0	535.0	537.0	539.6	543.5	546.4	549.7	553.3
27.5°	507.2	507.6	509.2	509.2	510.8	514.1	515.7	519.0	522.9	526.2	530.4
30°	480.1	480.8	480.8	482.1	483.0	484.7	486.3	489.6	491.5	494.5	500.4
32.5°	455.3	455.9	455.6	455.3	454.3	454.0	453.6	454.3	454.9	455.9	458.2
35°	440.6	438.9	437.6	435.3	432.7	429.4	426.5	422.6	419.0	416.0	412.8
37.5°	426.5	426.2	424.2	420.9	415.7	409.8	403.0	394.5	386.0	376.8	368.0
40°	406.9	405.9	404.3	399.7	393.8	386.6	377.5	367.0	353.3	339.2	324.9
42.5°	373.6	373.9	371.9	368.3	362.8	355.9	346.4	335.0	320.3	303.6	285.0
45°	334.7	334.7	334.0	331.1	327.2	321.6	314.4	304.9	290.5	273.5	253.6
47.5°	294.1	294.5	293.5	292.8	291.2	287.6	282.4	275.2	265.1	248.7	228.8
50°	253.0	253.0	254.6	254.3	254.3	253.0	250.7	246.4	237.6	224.5	205.9
52.5°	211.8	212.4	213.4	214.7	216.4	219.0	216.4	214.4	208.8	198.7	182.7
55°	169.3	169.9	171.6	173.9	175.8	178.4	179.1	179.1	176.2	169.3	157.2
57.5°	133.0	132.0	133.3	135.3	137.9	140.5	142.5	144.8	144.5	139.9	130.1
60°	100.0	100.3	101.3	103.3	105.2	107.5	110.1	112.1	113.1	110.8	104.6
62.5°	72.9	72.9	74.2	76.1	77.1	80.4	82.0	83.0	84.0	83.7	79.7
65°	51.0	51.6	52.3	53.3	54.3	56.2	57.2	59.2	59.8	60.1	57.2
67.5°	36.0	35.0	35.6	36.3	37.3	38.6	40.5	40.5	41.5	41.5	39.5
70°	22.9	22.9	23.2	24.2	24.8	25.2	25.8	26.5	27.5	27.1	27.1
72.5°	15.4	15.0	15.4	15.7	16.0	17.0	17.0	17.3	18.0	18.3	17.0
75°	7.8	8.2	8.8	8.5	9.5	8.8	9.1	10.1	9.8	9.1	9.1
77.5°	6.5	6.5	6.5	6.2	6.9	6.9	6.5	7.2	6.9	6.9	6.5
80°	4.6	4.9	4.6	4.2	4.6	4.2	4.2	4.2	4.2	4.2	3.9
82.5°	3.6	2.9	3.3	2.9	3.3	3.3	2.9	2.6	2.6	2.9	2.6
85°	2.6	2.0	2.3	2.3	2.0	2.0	2.0	2.0	2.0	1.6	1.6
87.5°	1.6	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	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°	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9
2.5°	609.9	609.5	610.2	609.9	609.9	609.5	609.9	609.5	610.2	608.9	609.2
5°	609.9	609.2	609.5	609.9	610.2	609.5	609.5	609.5	610.2	609.5	609.9
7.5°	608.5	608.2	609.2	609.9	609.5	609.2	609.9	609.5	610.2	609.9	610.5
10°	605.9	606.3	606.9	607.9	608.2	608.5	609.2	609.2	610.2	608.9	609.5
12.5°	602.0	603.3	605.0	605.6	606.9	606.9	607.6	607.9	608.5	608.2	609.2
15°	597.1	598.7	600.7	602.3	604.0	605.0	605.9	606.3	607.2	606.3	606.6
17.5°	591.2	593.2	596.1	598.1	600.7	601.7	603.0	603.6	604.6	604.0	604.3
20°	583.1	585.3	588.6	591.6	593.2	595.5	597.1	598.1	598.7	598.1	598.4
22.5°	571.6	574.9	579.1	581.4	584.7	586.6	587.0	589.3	590.9	589.3	589.9
25°	558.2	561.5	564.8	569.7	572.6	574.9	577.2	577.5	579.1	578.8	578.5
27.5°	536.0	540.2	545.8	549.7	553.6	557.2	559.9	560.5	562.1	561.5	561.8
30°	505.6	510.2	515.4	521.6	527.2	530.8	534.0	536.3	537.9	537.0	536.6
32.5°	462.5	467.0	472.6	478.8	485.3	490.6	494.5	497.4	499.4	498.7	497.1
35°	413.1	414.4	418.0	422.9	428.5	434.0	437.6	440.9	443.2	443.8	443.8
37.5°	362.4	358.2	355.6	355.6	358.9	361.1	364.4	366.4	370.0	371.3	372.3
40°	313.4	303.6	294.5	287.6	283.0	282.7	282.7	283.7	287.0	291.2	295.1
42.5°	269.6	253.9	239.9	227.1	218.0	212.8	210.5	210.8	213.4	217.3	223.9
45°	234.7	215.1	197.4	182.0	169.6	161.4	157.5	157.2	159.2	163.7	170.9
47.5°	207.5	186.6	166.7	149.0	135.6	126.8	122.2	120.9	122.2	126.5	135.0
50°	185.0	163.4	142.8	124.5	110.1	101.0	96.7	95.1	96.7	100.3	108.8
52.5°	164.1	141.8	122.6	104.9	89.5	81.7	77.1	76.1	77.1	81.4	88.2
55°	139.9	120.9	102.0	84.3	70.9	63.1	59.5	58.5	59.5	63.4	70.6
57.5°	116.0	99.7	83.0	67.0	55.6	48.7	45.4	44.1	46.4	49.0	57.5
60°	93.8	80.7	66.7	52.6	43.1	36.9	34.3	34.0	34.6	37.9	43.8
62.5°	73.5	62.8	51.6	40.2	32.4	29.7	26.5	26.1	26.8	28.8	33.3
65°	52.9	46.1	37.6	29.4	23.2	19.6	18.3	18.6	19.3	20.6	24.8
67.5°	36.9	32.0	26.1	20.6	16.0	14.4	13.1	12.7	13.1	15.4	17.6
70°	24.8	21.9	17.6	15.7	11.1	8.8	9.1	8.2	9.5	9.5	11.4
72.5°	16.3	14.4	11.8	9.1	7.8	6.2	6.2	5.9	6.5	6.9	8.5
75°	8.5	6.5	6.5	4.6	3.3	1.6	2.9	2.6	2.3	2.6	3.3
77.5°	5.9	4.9	4.6	3.6	3.3	2.6	2.6	2.6	2.6	2.9	3.3
80°	3.6	3.6	2.6	2.3	2.0	1.6	2.0	2.0	2.0	2.0	2.3
82.5°	2.3	2.0	2.0	1.6	1.6	1.3	1.3	1.3	1.3	1.3	2.0
85°	2.0	1.3	1.3	1.0	1.3	2.3	1.0	1.3	1.3	1.3	1.0
87.5°	0.7	1.0	1.0	1.0	0.7	0.3	0.7	1.0	1.0	1.6	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9
2.5°	609.9	610.2	610.2	609.9	609.9	609.2	610.5	609.5	609.9	611.2	610.2
5°	610.5	610.8	610.8	610.5	610.5	610.5	610.8	610.8	610.5	610.2	610.8
7.5°	611.8	611.5	611.5	610.8	610.8	610.2	610.8	609.9	610.5	609.9	610.8
10°	610.2	610.5	610.2	609.9	609.9	609.5	609.5	608.5	608.9	607.9	608.5
12.5°	609.2	608.9	608.9	608.2	607.6	606.9	606.6	605.6	605.6	603.3	604.3
15°	606.6	606.9	605.9	604.6	604.0	602.3	601.7	600.4	599.1	597.4	597.8
17.5°	604.3	603.3	602.0	600.7	598.1	596.8	595.5	593.5	592.9	590.9	590.2
20°	597.4	596.8	595.2	592.9	591.2	588.3	587.0	585.0	583.4	581.4	580.4
22.5°	588.6	588.0	586.0	583.7	581.1	579.8	578.5	574.9	573.2	571.3	571.0
25°	577.5	576.5	574.6	571.9	570.6	567.0	565.7	563.1	562.5	560.5	560.2
27.5°	560.5	559.2	556.9	553.6	551.4	549.1	547.8	545.8	545.1	543.2	542.9
30°	535.0	533.4	528.8	527.5	523.6	521.3	521.3	518.7	519.0	517.7	517.7
32.5°	494.8	492.2	488.6	486.0	483.4	482.1	482.1	481.1	481.7	481.7	482.4
35°	441.5	437.9	436.0	434.3	434.3	435.7	439.6	440.6	442.5	444.2	445.5
37.5°	373.2	372.9	375.2	377.2	382.1	387.6	394.5	400.4	405.9	409.8	413.8
40°	299.4	307.5	314.1	323.2	330.7	341.5	353.9	364.1	373.6	380.4	387.6
42.5°	233.7	244.1	257.9	271.3	284.7	299.4	315.7	329.8	342.2	351.7	359.2
45°	182.0	196.4	213.1	230.1	247.4	265.7	282.7	297.1	310.2	320.0	327.5
47.5°	146.7	162.4	181.4	200.0	219.6	238.9	257.9	270.3	281.1	288.9	295.8
50°	121.2	137.9	157.9	179.1	198.7	218.0	234.3	246.4	255.3	262.1	266.4
52.5°	101.3	119.0	140.2	161.4	181.1	198.7	213.4	222.6	229.8	234.7	238.6
55°	83.7	100.7	120.6	140.5	159.8	176.5	188.6	195.4	201.0	203.9	206.2
57.5°	68.3	84.0	102.3	120.6	137.3	151.0	160.5	167.3	169.9	172.2	171.9
60°	53.6	68.3	85.0	100.7	115.0	126.2	133.0	136.9	138.9	139.9	139.2
62.5°	42.2	55.6	68.3	82.0	92.5	102.0	108.5	108.5	109.5	109.8	110.8
65°	31.4	41.5	52.6	62.8	71.2	77.5	81.1	82.0	83.3	83.0	82.4
67.5°	23.2	30.7	38.9	46.4	52.3	56.2	58.8	61.1	60.8	60.1	59.8
70°	16.0	20.9	28.1	32.7	36.9	40.9	41.5	41.8	42.2	42.5	41.8
72.5°	11.1	14.7	18.6	22.6	25.2	26.8	28.4	28.8	28.8	28.8	28.4
75°	5.6	7.5	11.1	12.7	15.0	15.7	17.0	17.0	18.0	16.7	16.3
77.5°	4.9	5.9	7.8	9.1	10.1	11.1	11.4	12.4	12.1	11.4	11.8
80°	2.9	3.6	4.9	5.6	6.9	7.2	7.5	7.8	7.5	7.8	7.8
82.5°	2.3	2.6	3.3	3.3	4.2	4.2	4.6	4.6	4.9	4.9	4.9
85°	1.3	2.3	2.0	3.9	2.6	2.6	3.3	3.9	3.3	3.3	3.9
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	2.0	2.0	2.3	2.0
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):

	165°	170°	175°	180°
0°	608.9	608.9	608.9	608.9
2.5°	609.9	610.5	609.5	609.2
5°	610.8	610.8	610.2	610.2
7.5°	610.8	610.8	609.9	609.2
10°	608.2	608.2	607.2	606.6
12.5°	603.3	603.3	603.0	602.0
15°	597.1	597.1	595.8	594.8
17.5°	588.6	589.3	587.6	587.6
20°	579.5	579.1	577.8	577.2
22.5°	570.0	569.3	569.0	567.0
25°	559.9	559.2	558.2	557.2
27.5°	542.5	542.2	541.2	539.9
30°	516.1	515.7	514.4	514.4
32.5°	481.7	481.4	480.1	480.4
35°	446.1	447.4	446.8	445.5
37.5°	416.4	417.4	418.0	417.4
40°	391.5	394.5	394.8	395.5
42.5°	365.1	369.0	370.3	370.9
45°	333.4	337.0	339.9	339.2
47.5°	301.0	303.6	306.2	304.3
50°	270.0	271.6	272.6	272.6
52.5°	240.5	240.5	240.2	240.5
55°	206.9	206.9	205.6	206.2
57.5°	171.6	172.2	171.3	169.6
60°	138.9	137.3	136.6	135.6
62.5°	108.2	108.2	105.9	108.8
65°	81.1	80.1	79.1	78.8
67.5°	58.8	58.5	57.5	57.2
70°	41.5	40.2	39.9	39.2
72.5°	27.8	27.8	27.1	27.1
75°	17.0	15.4	15.0	15.4
77.5°	11.8	11.4	11.4	11.1
80°	7.8	7.5	8.2	7.2
82.5°	4.9	5.2	4.9	5.2
85°	3.3	3.9	3.6	3.6
87.5°	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)