

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: P245515

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245515
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 EC8B15927 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1236.3 lumens
Efficiency: N/A
Efficacy: 85.9 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

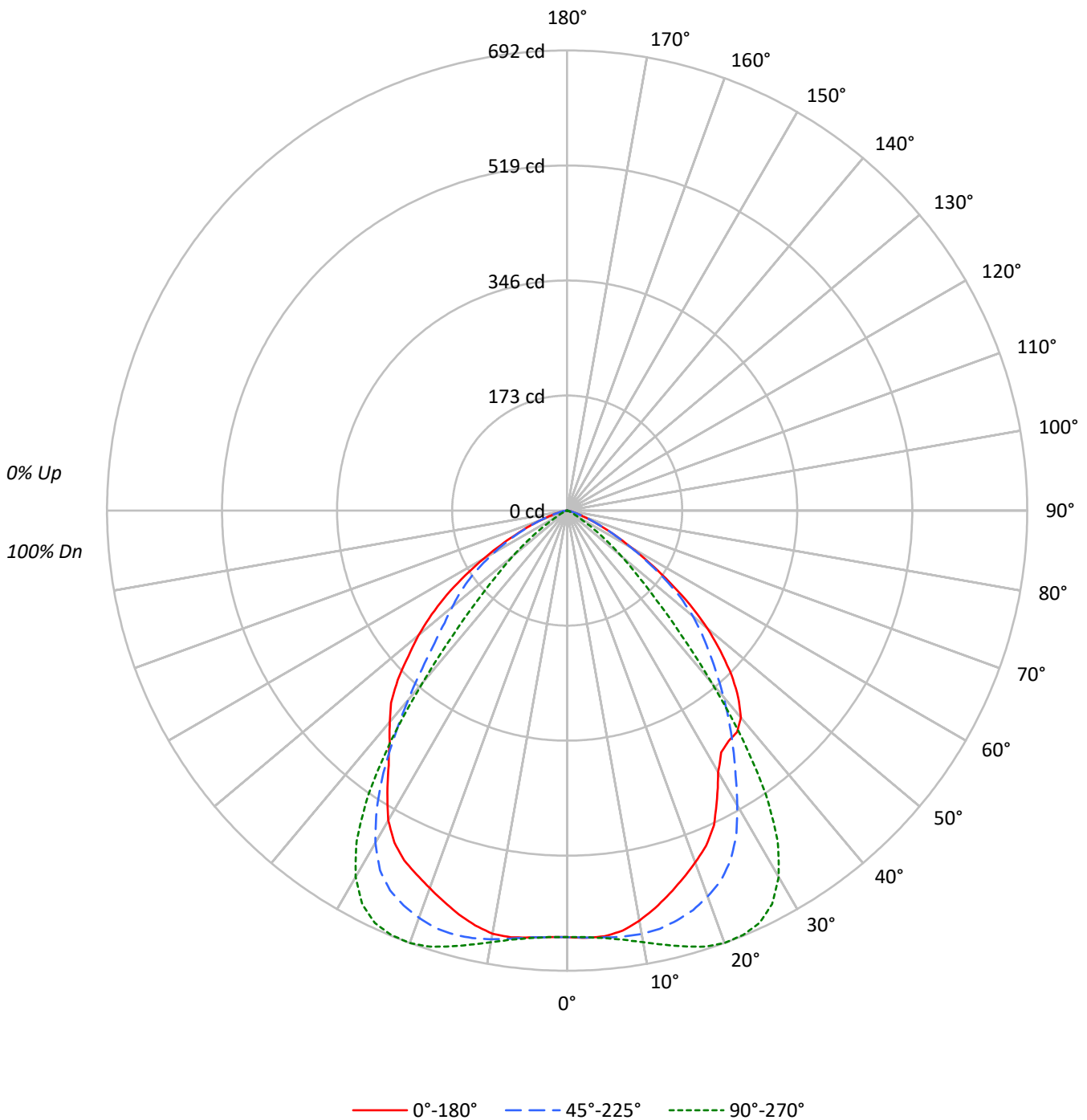
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	75	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°	61.7	5.0
10°-20°	182.7	14.8
20°-30°	278.8	22.5
30°-40°	290.9	23.5
40°-50°	218.5	17.7
50°-60°	134.4	10.9
60°-70°	54.7	4.4
70°-80°	12.9	1.0
80°-90°	1.8	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°	523.2	42.3
0°-40°	814.1	65.8
0°-60°	1167.0	94.4
0°-90°	1236.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	641	641	641	641	641	
5°	643	644	645	644	644	61
15°	596	638	678	660	629	168
25°	522	581	684	630	580	237
35°	423	435	521	482	468	267
45°	349	302	188	282	360	266
55°	188	179	49	179	221	170
65°	59	60	8	80	85	61
75°	10	10	1	18	19	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°	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4
2.5°	643.1	642.0	643.1	643.1	643.4	642.7	643.1	643.4	642.7	642.7	642.7
5°	642.7	642.0	642.7	642.4	643.1	643.1	643.7	643.7	644.4	644.4	645.5
7.5°	637.3	636.0	637.3	638.3	639.0	640.4	642.0	643.4	644.8	646.2	647.9
10°	626.1	626.1	627.1	629.1	631.1	633.6	636.6	640.0	643.4	646.5	649.6
12.5°	612.1	611.1	613.1	615.8	619.0	622.7	627.4	632.6	638.0	644.1	648.9
15°	596.1	595.1	597.5	600.2	603.9	609.4	615.2	622.0	629.8	638.0	645.9
17.5°	579.8	579.4	581.8	585.6	588.6	594.4	601.9	610.1	619.0	629.8	640.0
20°	563.1	562.7	565.1	568.2	572.3	577.7	585.2	594.8	605.2	617.5	629.4
22.5°	545.7	546.1	548.1	551.5	555.0	560.7	568.6	578.0	589.6	602.9	616.2
25°	522.2	520.5	523.2	526.6	532.5	537.2	544.7	555.0	566.9	580.8	596.5
27.5°	488.1	487.8	490.3	493.3	498.4	504.2	512.3	522.9	535.5	550.8	566.1
30°	454.2	454.8	455.8	458.9	462.3	468.1	476.3	485.1	497.0	511.6	528.1
32.5°	431.0	431.0	432.3	434.4	436.8	439.9	445.6	452.1	461.2	471.5	483.4
35°	423.1	421.8	423.1	423.6	423.9	424.6	425.6	427.6	430.6	435.0	439.5
37.5°	419.7	418.7	418.7	417.4	415.7	413.7	411.0	407.8	404.4	400.0	396.6
40°	406.5	405.8	405.1	403.8	400.0	395.9	391.5	384.3	376.5	365.6	354.7
42.5°	380.9	380.2	379.9	377.2	373.8	369.0	363.9	356.4	346.6	332.7	316.9
45°	349.3	348.0	347.0	344.5	342.1	338.1	333.3	326.5	316.6	302.3	283.6
47.5°	312.5	311.8	311.5	310.5	308.1	305.7	302.6	297.2	288.3	274.7	255.4
50°	275.4	274.0	274.7	274.4	273.4	271.7	269.7	265.8	259.1	246.8	229.2
52.5°	232.9	232.9	232.5	233.6	233.9	233.6	233.9	229.8	224.0	214.8	199.8
55°	188.5	188.5	189.7	191.0	192.4	192.7	192.4	190.7	186.5	179.1	165.8
57.5°	147.0	146.4	148.4	150.5	151.9	153.2	152.2	150.9	148.4	142.3	132.1
60°	112.0	112.0	113.4	114.8	116.1	117.4	117.1	116.8	114.8	110.6	102.5
62.5°	82.4	82.7	82.7	83.7	85.2	86.5	87.5	86.5	85.5	82.7	77.3
65°	58.8	58.5	58.8	60.0	61.0	62.3	63.0	62.7	61.6	59.6	55.5
67.5°	39.5	39.2	40.5	40.8	41.5	42.9	42.5	42.9	42.5	40.8	37.5
70°	25.9	25.2	25.9	25.5	26.6	26.9	27.6	27.9	27.6	26.6	25.5
72.5°	16.0	15.6	16.0	16.3	16.7	17.0	17.7	17.7	17.3	16.7	15.3
75°	10.2	9.2	9.6	8.9	9.6	9.6	10.2	10.6	10.2	10.2	9.6
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.5	6.8	6.1	5.7
80°	3.0	3.0	3.4	3.4	3.4	3.7	3.4	3.4	3.4	3.7	2.7
82.5°	2.4	2.0	2.0	2.0	2.4	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°	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4
2.5°	643.1	642.4	642.4	642.0	642.7	642.0	642.4	642.0	642.0	642.7	642.0
5°	645.5	645.9	645.2	644.8	645.9	645.9	645.9	645.2	645.2	645.5	645.2
7.5°	648.9	649.6	649.9	650.2	650.9	651.3	651.3	650.9	650.6	651.6	650.2
10°	652.6	653.6	655.6	656.7	658.5	658.5	659.1	659.1	658.5	659.1	658.8
12.5°	651.3	657.3	660.8	663.2	665.6	667.6	668.2	668.6	668.2	669.6	668.2
15°	653.6	658.8	664.2	668.2	672.8	675.1	675.8	678.5	679.2	679.5	677.5
17.5°	649.9	659.1	664.9	671.1	677.5	681.9	686.0	687.7	688.1	688.7	686.0
20°	641.4	651.6	660.5	669.3	676.8	683.6	687.0	691.8	690.4	693.1	689.4
22.5°	629.8	641.4	652.6	664.2	672.1	680.2	687.4	690.8	692.4	692.4	688.4
25°	611.4	625.1	637.3	649.2	661.2	671.1	679.2	684.3	685.4	685.0	680.2
27.5°	582.9	597.5	611.8	625.4	640.0	651.6	661.2	667.2	668.9	668.9	663.9
30°	543.4	559.0	573.0	589.3	604.2	617.2	630.4	636.0	639.0	639.0	633.3
32.5°	496.4	509.6	522.6	538.5	555.0	569.6	582.2	589.6	593.4	593.1	587.9
35°	445.3	451.8	461.6	473.5	488.1	501.9	514.0	521.2	527.7	527.3	522.6
37.5°	394.2	392.5	393.5	398.0	407.1	416.7	426.3	433.0	438.5	440.9	439.9
40°	344.1	335.4	326.8	323.8	324.4	327.8	333.0	338.1	344.1	347.3	348.6
42.5°	299.2	284.3	269.3	258.1	251.6	249.5	251.9	253.6	257.4	261.8	266.2
45°	263.1	243.1	223.3	206.0	195.1	188.5	187.2	188.5	190.7	195.1	200.8
47.5°	233.6	210.0	187.9	168.5	152.5	144.0	141.6	141.0	143.0	147.0	154.9
50°	207.3	183.8	159.3	136.8	120.2	110.6	107.2	105.9	108.2	111.4	118.5
52.5°	178.8	155.6	130.4	108.6	91.2	81.3	77.6	75.6	77.0	81.0	88.2
55°	147.7	126.3	103.5	81.0	64.4	55.1	50.7	49.4	50.7	55.1	62.3
57.5°	116.8	98.8	79.6	58.5	43.5	34.4	29.9	28.6	32.4	34.1	41.5
60°	91.2	76.6	60.3	42.9	29.9	22.8	18.3	17.3	19.0	22.2	28.2
62.5°	68.4	59.3	46.4	30.6	22.2	14.6	12.3	11.2	12.3	14.6	19.5
65°	49.7	42.5	32.4	22.5	15.0	10.9	8.2	7.5	8.5	10.2	14.3
67.5°	34.1	28.6	22.5	15.6	10.2	6.8	5.7	5.7	6.1	7.5	10.6
70°	22.2	18.7	14.3	10.2	6.8	5.1	4.4	3.7	4.4	5.4	7.2
72.5°	14.0	11.9	9.2	7.2	5.1	3.7	3.0	2.7	3.4	4.0	5.4
75°	8.5	6.5	4.7	3.7	2.7	2.7	2.7	1.3	1.7	2.7	3.4
77.5°	5.1	4.4	3.7	3.0	2.4	1.3	1.3	1.3	1.7	2.0	3.0
80°	2.7	2.4	1.7	1.7	1.3	1.0	1.3	1.0	0.7	1.7	2.0
82.5°	1.7	1.3	1.3	1.3	1.7	0.7	1.0	0.7	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.7	1.7	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°	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4
2.5°	642.4	642.0	642.4	642.0	642.0	642.0	642.4	642.4	642.0	642.0	642.7
5°	645.2	645.2	645.2	644.8	644.4	644.4	645.2	645.2	644.1	645.2	645.2
7.5°	650.9	649.9	650.9	649.6	648.9	649.2	649.6	648.9	648.2	648.6	648.6
10°	658.5	657.3	657.3	656.3	655.3	654.6	654.0	652.3	650.6	650.2	648.9
12.5°	667.2	665.6	664.5	662.5	660.8	658.5	656.3	653.6	650.2	647.9	645.5
15°	676.1	673.4	671.1	667.6	663.9	659.8	655.3	650.9	645.5	640.7	636.6
17.5°	683.2	679.5	675.1	669.6	664.2	658.1	651.6	645.2	637.3	631.1	626.4
20°	685.7	680.2	674.4	667.2	660.2	651.6	643.4	634.9	626.1	619.6	614.1
22.5°	682.5	676.1	668.9	661.5	651.9	642.7	633.3	623.4	615.5	606.7	601.5
25°	674.1	666.2	658.5	649.6	640.4	630.1	620.0	609.8	600.2	595.5	588.9
27.5°	656.7	648.2	639.7	630.4	620.0	609.8	599.2	589.3	581.2	574.6	570.9
30°	626.1	616.2	606.4	596.5	587.2	576.7	566.9	558.7	550.5	545.4	541.7
32.5°	579.0	570.3	560.4	550.8	542.4	533.5	525.3	518.2	512.3	509.0	506.2
35°	515.8	506.9	499.4	492.6	485.4	481.7	476.7	472.5	470.1	468.8	468.4
37.5°	436.0	431.0	428.6	427.3	425.9	424.9	425.6	427.3	428.6	431.0	433.7
40°	351.0	355.4	356.7	361.6	366.0	371.8	378.2	385.8	391.8	399.7	405.1
42.5°	273.4	281.6	291.0	301.3	312.2	322.8	335.7	347.6	358.5	368.3	376.9
45°	210.0	222.6	236.9	251.6	266.2	281.6	297.2	311.8	324.8	335.4	344.1
47.5°	163.8	177.8	196.1	214.1	231.9	249.9	267.3	282.6	293.5	303.6	311.5
50°	129.7	145.7	165.8	186.5	206.0	225.0	243.4	257.7	268.7	276.8	282.6
52.5°	100.5	119.5	140.0	161.7	182.5	203.3	220.3	233.6	242.4	249.5	253.9
55°	74.9	93.6	115.4	137.9	159.0	179.1	195.1	206.7	214.5	218.6	221.0
57.5°	54.1	71.1	92.9	115.4	134.4	153.6	166.5	177.1	181.5	183.8	184.8
60°	39.5	55.1	74.6	93.9	112.0	127.4	138.6	145.7	149.1	150.5	150.2
62.5°	28.9	42.5	59.3	75.6	90.2	102.8	111.7	116.4	118.1	118.8	117.8
65°	22.2	32.6	47.0	59.6	70.8	80.0	86.5	89.6	90.6	90.2	89.6
67.5°	16.3	24.5	35.1	44.6	52.8	60.0	63.3	66.0	66.7	65.7	64.7
70°	11.6	18.0	25.5	32.0	38.1	42.2	46.0	46.4	46.4	46.0	45.3
72.5°	8.2	12.6	17.3	21.8	25.5	28.6	29.9	30.9	30.6	30.3	29.6
75°	5.4	7.9	12.6	13.6	17.0	18.0	19.5	19.5	19.7	18.7	18.7
77.5°	3.4	5.4	7.5	8.9	10.2	11.6	12.3	12.3	12.6	12.3	12.3
80°	2.0	3.4	4.0	6.1	6.1	7.2	7.5	7.9	7.2	8.2	7.2
82.5°	1.3	2.0	3.0	3.0	3.7	4.4	4.4	4.7	4.7	4.4	4.4
85°	1.0	1.3	1.7	2.0	2.0	2.4	2.0	2.0	2.4	2.7	2.4
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°	641.4	641.4	641.4	641.4
2.5°	642.0	642.4	642.0	642.0
5°	645.2	644.8	645.2	644.4
7.5°	647.6	647.6	647.2	647.2
10°	647.6	646.2	646.2	646.2
12.5°	642.4	640.7	639.7	639.0
15°	633.6	630.4	629.1	628.8
17.5°	622.0	619.3	617.5	616.5
20°	608.7	606.0	603.9	604.2
22.5°	597.2	594.1	592.8	592.0
25°	585.6	581.8	580.8	580.2
27.5°	566.9	564.8	563.7	562.7
30°	538.2	537.2	535.5	537.9
32.5°	505.2	503.6	502.2	503.2
35°	468.8	467.8	468.8	468.1
37.5°	435.4	436.5	437.8	438.5
40°	409.2	413.0	414.3	415.0
42.5°	383.0	387.4	390.2	391.8
45°	350.7	355.0	358.1	360.2
47.5°	317.2	321.1	324.1	323.8
50°	287.0	289.0	290.4	291.7
52.5°	256.4	256.4	256.7	256.7
55°	221.6	221.0	220.6	221.0
57.5°	183.5	182.8	182.5	181.5
60°	148.7	146.7	145.4	145.4
62.5°	116.4	114.1	113.1	112.7
65°	87.5	87.2	85.2	84.7
67.5°	63.3	62.0	60.6	61.0
70°	44.6	42.5	42.5	41.8
72.5°	28.9	27.9	27.6	27.6
75°	18.0	18.0	17.3	18.7
77.5°	11.9	11.9	11.6	11.9
80°	7.2	7.2	7.2	6.8
82.5°	4.4	4.7	4.4	4.4
85°	2.4	2.7	2.0	3.0
87.5°	1.3	1.7	1.3	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)