

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: P245521

Luminaire Tested: **LSR8B15D010 EC8B159730 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245521
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 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1163.0 lumens
Efficiency: N/A
Efficacy: 80.8 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

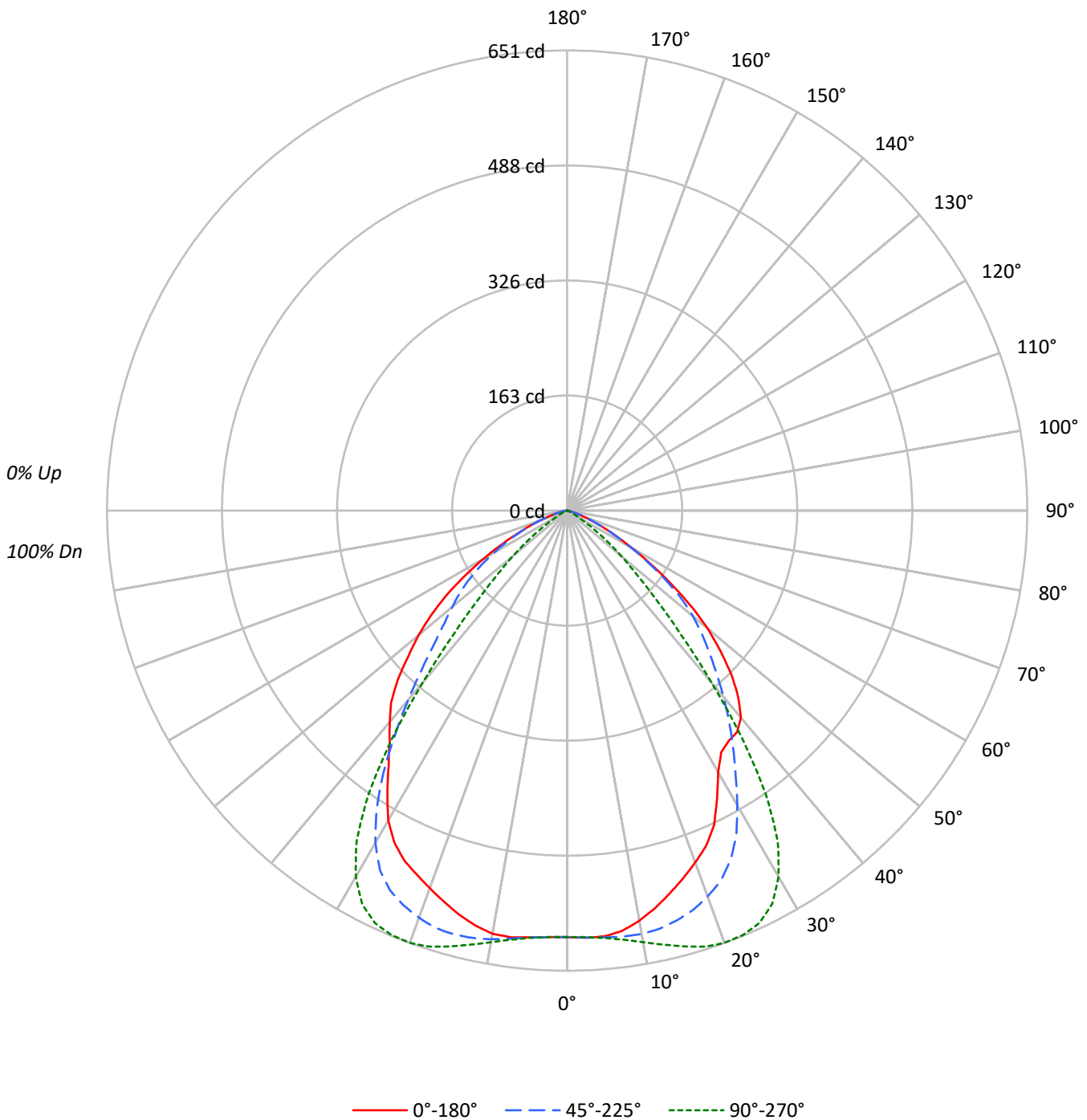
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	58.0	5.0
10°-20°	171.9	14.8
20°-30°	262.2	22.5
30°-40°	273.6	23.5
40°-50°	205.5	17.7
50°-60°	126.5	10.9
60°-70°	51.5	4.4
70°-80°	12.1	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°	492.1	42.3
0°-40°	765.7	65.8
0°-60°	1097.7	94.4
0°-90°	1163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	603	603	603	603	603	
5°	605	606	607	606	606	57
15°	561	600	638	621	592	158
25°	491	546	644	593	546	223
35°	398	409	490	453	440	251
45°	329	284	177	265	339	251
55°	177	168	46	168	208	159
65°	55	56	7	75	80	58
75°	10	10	1	17	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°	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3
2.5°	604.9	604.0	604.9	604.9	605.3	604.6	604.9	605.3	604.6	604.6	604.6
5°	604.6	604.0	604.6	604.3	604.9	604.9	605.6	605.6	606.2	606.2	607.2
7.5°	599.5	598.2	599.5	600.4	601.1	602.4	604.0	605.3	606.5	607.8	609.4
10°	588.9	588.9	589.9	591.8	593.7	596.0	598.8	602.0	605.3	608.1	611.0
12.5°	575.8	574.8	576.7	579.3	582.2	585.7	590.2	595.0	600.1	605.9	610.4
15°	560.7	559.8	562.0	564.6	568.1	573.2	578.7	585.1	592.4	600.1	607.5
17.5°	545.4	545.0	547.3	550.8	553.7	559.1	566.2	573.9	582.2	592.4	602.0
20°	529.7	529.4	531.6	534.5	538.3	543.4	550.5	559.5	569.4	580.9	592.1
22.5°	513.3	513.7	515.6	518.8	522.0	527.4	534.8	543.8	554.6	567.1	579.6
25°	491.2	489.6	492.2	495.4	500.8	505.3	512.4	522.0	533.2	546.3	561.1
27.5°	459.2	458.9	461.1	464.0	468.8	474.3	482.0	491.9	503.7	518.1	532.6
30°	427.2	427.8	428.8	431.7	434.9	440.3	448.0	456.3	467.5	481.3	496.7
32.5°	405.4	405.4	406.7	408.6	410.9	413.7	419.2	425.3	433.9	443.5	454.7
35°	398.1	396.8	398.1	398.4	398.7	399.3	400.3	402.2	405.1	409.3	413.4
37.5°	394.9	393.9	393.9	392.6	391.0	389.1	386.5	383.6	380.4	376.3	373.1
40°	382.4	381.7	381.1	379.8	376.3	372.4	368.3	361.5	354.2	343.9	333.7
42.5°	358.3	357.7	357.4	354.8	351.6	347.1	342.3	335.3	326.0	312.9	298.1
45°	328.6	327.3	326.3	324.1	321.8	318.0	313.5	307.1	297.8	284.4	266.8
47.5°	294.0	293.3	293.0	292.1	289.8	287.6	284.7	279.6	271.2	258.4	240.2
50°	259.1	257.8	258.4	258.1	257.2	255.6	253.6	250.1	243.7	232.2	215.5
52.5°	219.0	219.0	218.7	219.7	220.0	219.7	220.0	216.2	210.7	202.1	188.0
55°	177.4	177.4	178.4	179.7	180.9	181.3	180.9	179.3	175.5	168.4	156.0
57.5°	138.3	137.7	139.6	141.5	142.8	144.1	143.1	141.9	139.6	133.9	124.3
60°	105.4	105.4	106.6	107.9	109.2	110.5	110.2	109.8	107.9	104.1	96.4
62.5°	77.5	77.8	77.8	78.8	80.1	81.3	82.3	81.3	80.4	77.8	72.7
65°	55.4	55.1	55.4	56.4	57.3	58.6	59.2	58.9	58.0	56.0	52.2
67.5°	37.1	36.8	38.1	38.4	39.1	40.4	40.0	40.4	40.0	38.4	35.2
70°	24.3	23.7	24.3	24.0	25.0	25.3	25.9	26.3	25.9	25.0	24.0
72.5°	15.1	14.7	15.1	15.4	15.7	16.0	16.7	16.7	16.3	15.7	14.4
75°	9.6	8.6	9.0	8.3	9.0	9.0	9.6	9.9	9.6	9.6	9.0
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.1	6.4	5.8	5.4
80°	2.9	2.9	3.2	3.2	3.2	3.5	3.2	3.2	3.2	3.5	2.6
82.5°	2.2	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.3	1.0	0.6	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	0.6	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°	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3
2.5°	604.9	604.3	604.3	604.0	604.6	604.0	604.3	604.0	604.0	604.6	604.0
5°	607.2	607.5	606.8	606.5	607.5	607.5	607.5	606.8	606.8	607.2	606.8
7.5°	610.4	611.0	611.3	611.7	612.3	612.6	612.6	612.3	612.0	612.9	611.7
10°	613.9	614.9	616.8	617.7	619.3	619.3	620.0	620.0	619.3	620.0	619.7
12.5°	612.6	618.4	621.6	623.8	626.1	628.0	628.6	628.9	628.6	629.9	628.6
15°	614.9	619.7	624.8	628.6	632.8	635.0	635.7	638.2	638.9	639.2	637.3
17.5°	611.3	620.0	625.4	631.2	637.3	641.4	645.3	646.9	647.2	647.8	645.3
20°	603.3	612.9	621.3	629.6	636.6	643.0	646.2	650.7	649.4	652.0	648.5
22.5°	592.4	603.3	613.9	624.8	632.2	639.8	646.6	649.8	651.4	651.4	647.5
25°	575.1	588.0	599.5	610.7	621.9	631.2	638.9	643.7	644.6	644.3	639.8
27.5°	548.2	562.0	575.5	588.3	602.0	612.9	621.9	627.7	629.3	629.3	624.5
30°	511.1	525.8	539.0	554.3	568.4	580.6	593.1	598.2	601.1	601.1	595.6
32.5°	466.9	479.4	491.6	506.6	522.0	535.8	547.6	554.6	558.2	557.9	553.0
35°	418.9	425.0	434.2	445.5	459.2	472.0	483.6	490.3	496.4	496.0	491.6
37.5°	370.8	369.2	370.2	374.4	383.0	392.0	400.9	407.3	412.5	414.7	413.7
40°	323.8	315.4	307.4	304.5	305.2	308.4	313.2	318.0	323.8	326.6	327.9
42.5°	281.5	267.4	253.3	242.7	236.7	234.7	237.0	238.6	242.1	246.3	250.4
45°	247.5	228.7	210.1	193.7	183.5	177.4	176.1	177.4	179.3	183.5	188.9
47.5°	219.7	197.6	176.8	158.5	143.5	135.5	133.2	132.6	134.5	138.3	145.7
50°	195.0	172.9	149.9	128.7	113.0	104.1	100.9	99.6	101.8	104.7	111.4
52.5°	168.1	146.3	122.7	102.2	85.8	76.5	73.0	71.1	72.4	76.2	82.9
55°	139.0	118.8	97.4	76.2	60.5	51.9	47.7	46.4	47.7	51.9	58.6
57.5°	109.8	92.9	74.9	55.1	41.0	32.3	28.2	26.9	30.4	32.0	39.1
60°	85.8	72.1	56.7	40.4	28.2	21.5	17.3	16.3	17.9	20.8	26.6
62.5°	64.4	55.7	43.6	28.8	20.8	13.8	11.5	10.6	11.5	13.8	18.3
65°	46.8	40.0	30.4	21.1	14.1	10.2	7.7	7.0	8.0	9.6	13.5
67.5°	32.0	26.9	21.1	14.7	9.6	6.4	5.4	5.4	5.8	7.0	9.9
70°	20.8	17.6	13.5	9.6	6.4	4.8	4.2	3.5	4.2	5.1	6.7
72.5°	13.1	11.2	8.6	6.7	4.8	3.5	2.9	2.6	3.2	3.8	5.1
75°	8.0	6.1	4.5	3.5	2.6	2.6	2.6	1.3	1.6	2.6	3.2
77.5°	4.8	4.2	3.5	2.9	2.2	1.3	1.3	1.3	1.6	1.9	2.9
80°	2.6	2.2	1.6	1.6	1.3	1.0	1.3	1.0	0.6	1.6	1.9
82.5°	1.6	1.3	1.3	1.3	1.6	0.6	1.0	0.6	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.6	1.6	0.6	0.6	0.3	0.3	0.6	0.6
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°	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3
2.5°	604.3	604.0	604.3	604.0	604.0	604.0	604.3	604.3	604.0	604.0	604.6
5°	606.8	606.8	606.8	606.5	606.2	606.2	606.8	606.8	605.9	606.8	606.8
7.5°	612.3	611.3	612.3	611.0	610.4	610.7	611.0	610.4	609.7	610.1	610.1
10°	619.3	618.4	618.4	617.4	616.5	615.8	615.2	613.6	612.0	611.7	610.4
12.5°	627.7	626.1	625.1	623.2	621.6	619.3	617.4	614.9	611.7	609.4	607.2
15°	636.0	633.4	631.2	628.0	624.5	620.6	616.5	612.3	607.2	602.7	598.8
17.5°	642.7	639.2	635.0	629.9	624.8	619.0	612.9	606.8	599.5	593.7	589.2
20°	645.0	639.8	634.4	627.7	620.9	612.9	605.3	597.2	588.9	582.8	577.7
22.5°	642.1	636.0	629.3	622.2	613.3	604.6	595.6	586.4	579.0	570.7	565.9
25°	634.1	626.7	619.3	611.0	602.4	592.8	583.2	573.5	564.6	560.1	554.0
27.5°	617.7	609.7	601.7	593.1	583.2	573.5	563.6	554.3	546.6	540.6	537.0
30°	588.9	579.6	570.3	561.1	552.4	542.5	533.2	525.5	517.8	513.0	509.5
32.5°	544.7	536.4	527.1	518.1	510.1	501.8	494.1	487.4	482.0	478.8	476.2
35°	485.2	476.8	469.8	463.4	456.7	453.1	448.3	444.5	442.2	441.0	440.6
37.5°	410.2	405.4	403.2	401.9	400.6	399.7	400.3	401.9	403.2	405.4	408.0
40°	330.2	334.3	335.6	340.1	344.3	349.7	355.8	362.8	368.6	376.0	381.1
42.5°	257.2	264.8	273.8	283.4	293.7	303.6	315.8	327.0	337.2	346.5	354.5
45°	197.6	209.4	222.9	236.7	250.4	264.8	279.6	293.3	305.5	315.4	323.8
47.5°	154.0	167.2	184.5	201.4	218.1	235.1	251.4	265.8	276.0	285.6	293.0
50°	122.0	137.1	156.0	175.5	193.7	211.7	229.0	242.4	252.7	260.4	265.8
52.5°	94.5	112.4	131.6	152.1	171.6	191.2	207.2	219.7	228.0	234.7	238.9
55°	70.5	88.1	108.6	129.7	149.6	168.4	183.5	194.4	201.8	205.6	207.8
57.5°	50.9	66.9	87.4	108.6	126.5	144.4	156.6	166.5	170.7	172.9	173.9
60°	37.1	51.9	70.1	88.4	105.4	119.8	130.3	137.1	140.3	141.5	141.2
62.5°	27.2	40.0	55.7	71.1	84.9	96.7	105.0	109.5	111.1	111.8	110.8
65°	20.8	30.7	44.2	56.0	66.6	75.3	81.3	84.2	85.2	84.9	84.2
67.5°	15.4	23.1	33.0	42.0	49.6	56.4	59.6	62.1	62.8	61.8	60.8
70°	10.9	17.0	24.0	30.1	35.9	39.7	43.2	43.6	43.6	43.2	42.6
72.5°	7.7	11.8	16.3	20.5	24.0	26.9	28.2	29.1	28.8	28.5	27.9
75°	5.1	7.4	11.8	12.8	16.0	17.0	18.3	18.3	18.6	17.6	17.6
77.5°	3.2	5.1	7.0	8.3	9.6	10.9	11.5	11.5	11.8	11.5	11.5
80°	1.9	3.2	3.8	5.8	5.8	6.7	7.0	7.4	6.7	7.7	6.7
82.5°	1.3	1.9	2.9	2.9	3.5	4.2	4.2	4.5	4.5	4.2	4.2
85°	1.0	1.3	1.6	1.9	1.9	2.2	1.9	1.9	2.2	2.6	2.2
87.5°	0.3	0.6	0.3	0.6	0.6	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°	603.3	603.3	603.3	603.3
2.5°	604.0	604.3	604.0	604.0
5°	606.8	606.5	606.8	606.2
7.5°	609.1	609.1	608.8	608.8
10°	609.1	607.8	607.8	607.8
12.5°	604.3	602.7	601.7	601.1
15°	596.0	593.1	591.8	591.5
17.5°	585.1	582.5	580.9	579.9
20°	572.6	570.0	568.1	568.4
22.5°	561.7	558.8	557.5	556.9
25°	550.8	547.3	546.3	545.7
27.5°	533.2	531.3	530.3	529.4
30°	506.3	505.3	503.7	506.0
32.5°	475.2	473.6	472.4	473.3
35°	441.0	440.0	441.0	440.3
37.5°	409.6	410.5	411.8	412.5
40°	384.9	388.4	389.7	390.4
42.5°	360.3	364.4	367.0	368.6
45°	329.8	334.0	336.9	338.8
47.5°	298.5	302.0	304.9	304.5
50°	270.0	271.9	273.2	274.4
52.5°	241.1	241.1	241.5	241.5
55°	208.5	207.8	207.5	207.8
57.5°	172.6	172.0	171.6	170.7
60°	139.9	138.0	136.7	136.7
62.5°	109.5	107.3	106.3	106.0
65°	82.3	82.0	80.1	79.7
67.5°	59.6	58.3	57.0	57.3
70°	42.0	40.0	40.0	39.4
72.5°	27.2	26.3	25.9	25.9
75°	17.0	17.0	16.3	17.6
77.5°	11.2	11.2	10.9	11.2
80°	6.7	6.7	6.7	6.4
82.5°	4.2	4.5	4.2	4.2
85°	2.2	2.6	1.9	2.9
87.5°	1.3	1.6	1.3	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)