

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 EC8B15930 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 EC8B15930 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: 1293.6 lumens
Efficiency: N/A
Efficacy: 89.8 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

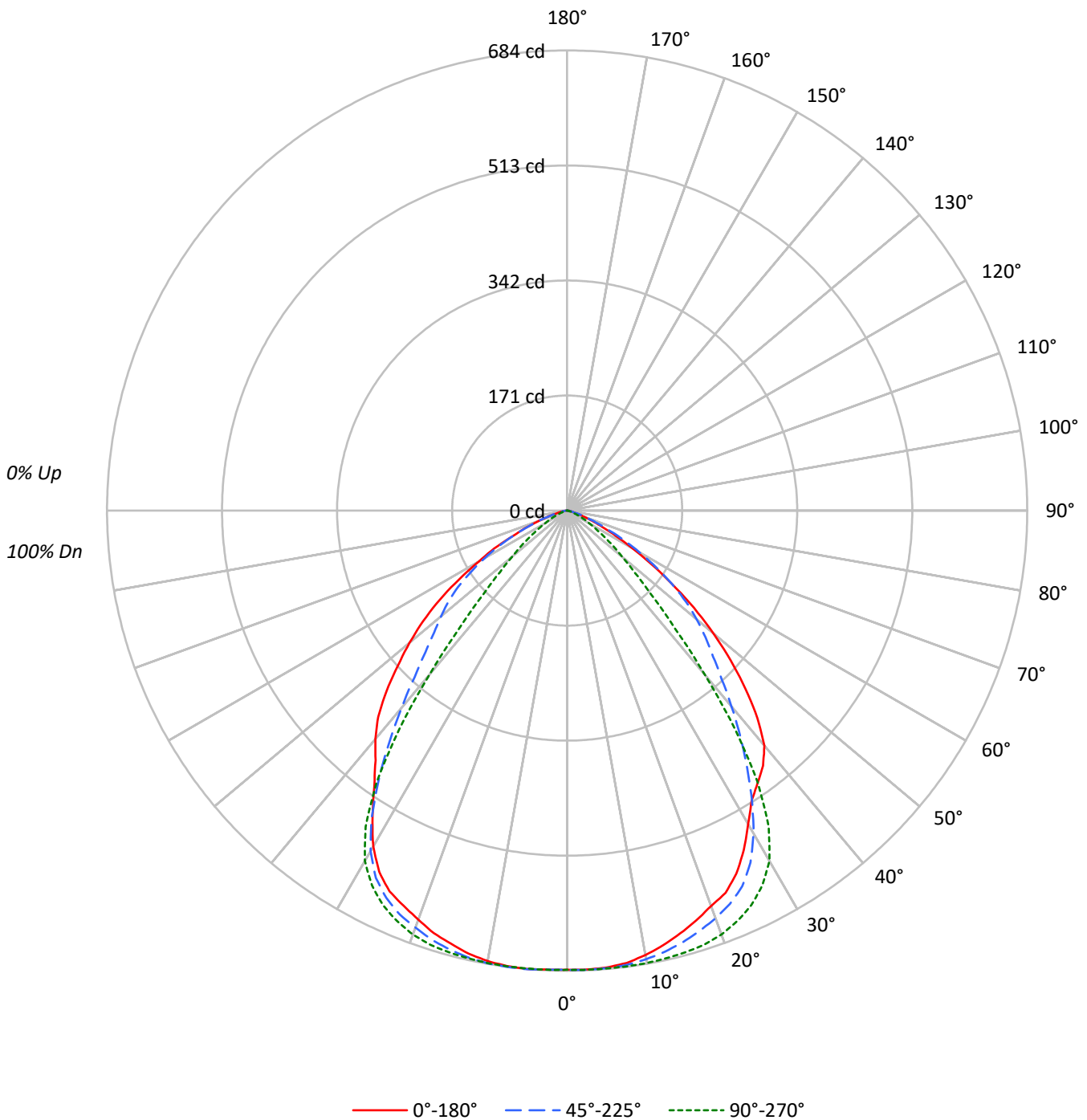
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	65.1	5.0
10°-20°	189.2	14.6
20°-30°	287.1	22.2
30°-40°	301.6	23.3
40°-50°	226.1	17.5
50°-60°	145.1	11.2
60°-70°	62.1	4.8
70°-80°	14.7	1.1
80°-90°	2.7	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°	541.4	41.9
0°-40°	843.0	65.2
0°-60°	1214.2	93.9
0°-90°	1293.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1293.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	683	683	683	683	683	
5°	682	683	683	684	684	65
15°	651	664	680	675	667	184
25°	595	616	647	636	625	272
35°	494	466	494	488	499	310
45°	375	307	176	298	380	287
55°	190	190	66	198	231	172
65°	57	67	21	87	88	61
75°	9	10	3	18	17	13
85°	3	2	2	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°	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6
2.5°	682.9	683.7	683.2	683.2	682.9	683.2	683.2	684.0	684.0	683.2	682.9
5°	681.5	682.1	682.1	681.5	681.5	683.2	682.1	682.9	682.9	682.6	682.6
7.5°	678.2	678.2	679.7	678.5	678.5	679.7	679.2	680.0	680.7	681.1	681.1
10°	670.8	671.6	671.9	671.9	672.3	673.4	674.2	675.6	676.3	677.1	677.4
12.5°	661.6	662.7	663.2	662.7	663.9	665.3	667.2	669.0	670.1	671.6	672.7
15°	650.6	650.6	651.4	652.5	653.2	655.4	657.2	659.5	662.4	664.2	666.1
17.5°	638.6	639.3	640.4	640.4	641.9	645.6	646.6	650.0	653.2	655.1	658.7
20°	625.4	626.1	627.2	628.0	629.8	632.7	634.9	637.8	641.5	644.8	648.5
22.5°	615.1	613.6	614.4	615.1	617.0	619.6	622.2	625.7	629.4	632.7	636.4
25°	595.4	595.7	596.8	597.5	599.7	602.0	604.9	609.3	612.5	616.2	620.2
27.5°	568.6	569.0	570.8	570.8	572.6	576.3	578.1	581.8	586.2	589.9	594.6
30°	538.2	539.0	539.0	540.4	541.4	543.3	545.1	548.8	551.0	554.3	560.9
32.5°	510.4	511.1	510.7	510.4	509.3	508.9	508.5	509.3	509.9	511.1	513.6
35°	493.9	492.0	490.5	488.0	485.1	481.4	478.1	473.7	469.7	466.3	462.7
37.5°	478.1	477.8	475.5	471.8	466.0	459.4	451.8	442.2	432.7	422.4	412.5
40°	456.1	455.0	453.2	448.1	441.4	433.4	423.2	411.4	396.0	380.2	364.2
42.5°	418.8	419.1	416.9	412.9	406.7	399.0	388.3	375.5	359.1	340.3	319.5
45°	375.2	375.2	374.4	371.2	366.8	360.5	352.4	341.8	325.7	306.6	284.3
47.5°	329.7	330.1	329.0	328.2	326.4	322.4	316.6	308.5	297.2	278.8	256.5
50°	283.6	283.6	285.4	285.1	285.1	283.6	281.0	276.2	266.3	251.7	230.8
52.5°	237.4	238.1	239.2	240.7	242.6	245.5	242.6	240.3	234.1	222.7	204.8
55°	189.8	190.5	192.4	194.9	197.1	200.0	200.8	200.8	197.5	189.8	176.2
57.5°	149.1	148.0	149.4	151.7	154.6	157.5	159.7	162.3	162.0	156.8	145.8
60°	112.1	112.4	113.6	115.8	117.9	120.5	123.4	125.7	126.8	124.2	117.3
62.5°	81.7	81.7	83.2	85.3	86.4	90.1	91.9	93.0	94.2	93.8	89.3
65°	57.2	57.8	58.6	59.7	60.9	63.0	64.1	66.4	67.0	67.4	64.1
67.5°	40.4	39.2	39.9	40.7	41.8	43.3	45.4	45.4	46.5	46.5	44.3
70°	25.7	25.7	26.0	27.1	27.8	28.2	28.9	29.7	30.8	30.4	30.4
72.5°	17.3	16.8	17.3	17.6	17.9	19.1	19.1	19.4	20.2	20.5	19.1
75°	8.7	9.2	9.9	9.5	10.6	9.9	10.2	11.3	11.0	10.2	10.2
77.5°	7.3	7.3	7.3	7.0	7.7	7.7	7.3	8.1	7.7	7.7	7.3
80°	5.2	5.5	5.2	4.7	5.2	4.7	4.7	4.7	4.7	4.7	4.4
82.5°	4.0	3.3	3.7	3.3	3.7	3.7	3.3	2.9	2.9	3.3	2.9
85°	2.9	2.2	2.6	2.6	2.2	2.2	2.2	2.2	2.2	1.8	1.8
87.5°	1.8	1.1	1.1	1.1	1.5	1.5	1.5	1.1	1.5	1.5	0.8
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°	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6
2.5°	683.7	683.2	684.0	683.7	683.7	683.2	683.7	683.2	684.0	682.6	682.9
5°	683.7	682.9	683.2	683.7	684.0	683.2	683.2	683.2	684.0	683.2	683.7
7.5°	682.1	681.8	682.9	683.7	683.2	682.9	683.7	683.2	684.0	683.7	684.4
10°	679.2	679.7	680.3	681.5	681.8	682.1	682.9	682.9	684.0	682.6	683.2
12.5°	674.8	676.3	678.2	678.9	680.3	680.3	681.1	681.5	682.1	681.8	682.9
15°	669.3	671.1	673.4	675.2	677.1	678.2	679.2	679.7	680.7	679.7	680.0
17.5°	662.7	665.0	668.2	670.5	673.4	674.5	676.0	676.6	677.8	677.1	677.4
20°	653.7	656.1	659.8	663.2	665.0	667.6	669.3	670.5	671.1	670.5	670.8
22.5°	640.8	644.5	649.2	651.7	655.4	657.6	658.0	660.6	662.4	660.6	661.3
25°	625.7	629.4	633.1	638.6	641.9	644.5	647.0	647.4	649.2	648.8	648.5
27.5°	600.9	605.6	611.8	616.2	620.6	624.6	627.6	628.3	630.1	629.4	629.8
30°	566.8	571.9	577.8	584.7	591.0	595.0	598.6	601.2	603.0	602.0	601.5
32.5°	518.5	523.5	529.8	536.7	544.0	550.0	554.3	557.6	559.8	559.0	557.2
35°	463.1	464.5	468.6	474.1	480.3	486.5	490.5	494.2	496.8	497.5	497.5
37.5°	406.3	401.5	398.6	398.6	402.3	404.8	408.5	410.7	414.8	416.2	417.3
40°	351.3	340.3	330.1	322.4	317.2	316.9	316.9	318.0	321.7	326.4	330.8
42.5°	302.2	284.6	268.9	254.6	244.4	238.5	236.0	236.3	239.2	243.6	251.0
45°	263.1	241.1	221.3	204.0	190.1	180.9	176.6	176.2	178.5	183.5	191.6
47.5°	232.6	209.2	186.9	167.0	152.0	142.1	137.0	135.5	137.0	141.8	151.3
50°	207.4	183.2	160.1	139.6	123.4	113.2	108.4	106.6	108.4	112.4	122.0
52.5°	184.0	159.0	137.4	117.6	100.3	91.6	86.4	85.3	86.4	91.2	98.9
55°	156.8	135.5	114.3	94.5	79.5	70.7	66.7	65.6	66.7	71.1	79.1
57.5°	130.0	111.8	93.0	75.1	62.3	54.6	50.9	49.4	52.0	54.9	64.5
60°	105.1	90.5	74.8	59.0	48.3	41.4	38.5	38.1	38.8	42.5	49.1
62.5°	82.4	70.4	57.8	45.1	36.3	33.3	29.7	29.3	30.0	32.3	37.3
65°	59.3	51.7	42.1	33.0	26.0	22.0	20.5	20.9	21.6	23.1	27.8
67.5°	41.4	35.9	29.3	23.1	17.9	16.1	14.7	14.2	14.7	17.3	19.7
70°	27.8	24.5	19.7	17.6	12.4	9.9	10.2	9.2	10.6	10.6	12.8
72.5°	18.3	16.1	13.2	10.2	8.7	7.0	7.0	6.6	7.3	7.7	9.5
75°	9.5	7.3	7.3	5.2	3.7	1.8	3.3	2.9	2.6	2.9	3.7
77.5°	6.6	5.5	5.2	4.0	3.7	2.9	2.9	2.9	2.9	3.3	3.7
80°	4.0	4.0	2.9	2.6	2.2	1.8	2.2	2.2	2.2	2.2	2.6
82.5°	2.6	2.2	2.2	1.8	1.8	1.5	1.5	1.5	1.5	1.5	2.2
85°	2.2	1.5	1.5	1.1	1.5	2.6	1.1	1.5	1.5	1.5	1.1
87.5°	0.8	1.1	1.1	1.1	0.8	0.3	0.8	1.1	1.1	1.8	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6	682.6
2.5°	683.7	684.0	684.0	683.7	683.7	682.9	684.4	683.2	683.7	685.2	684.0
5°	684.4	684.7	684.7	684.4	684.4	684.4	684.7	684.7	684.4	684.0	684.7
7.5°	685.8	685.5	685.5	684.7	684.7	684.0	684.7	683.7	684.4	683.7	684.7
10°	684.0	684.4	684.0	683.7	683.7	683.2	683.2	682.1	682.6	681.5	682.1
12.5°	682.9	682.6	682.6	681.8	681.1	680.3	680.0	678.9	678.9	676.3	677.4
15°	680.0	680.3	679.2	677.8	677.1	675.2	674.5	673.0	671.6	669.7	670.1
17.5°	677.4	676.3	674.8	673.4	670.5	669.0	667.6	665.3	664.6	662.4	661.6
20°	669.7	669.0	667.2	664.6	662.7	659.5	658.0	655.8	654.0	651.7	650.6
22.5°	659.8	659.1	656.9	654.3	651.4	650.0	648.5	644.5	642.6	640.4	640.1
25°	647.4	646.3	644.1	641.1	639.6	635.6	634.1	631.2	630.6	628.3	628.0
27.5°	628.3	626.9	624.3	620.6	618.1	615.5	614.1	611.8	611.1	608.9	608.6
30°	599.7	597.9	592.8	591.3	587.0	584.4	584.4	581.5	581.8	580.3	580.3
32.5°	554.7	551.8	547.7	544.8	541.9	540.4	540.4	539.3	540.0	540.0	540.8
35°	494.9	490.9	488.8	486.9	486.9	488.4	492.8	493.9	496.0	497.9	499.4
37.5°	418.4	418.0	420.6	422.8	428.3	434.5	442.2	448.8	455.0	459.4	463.9
40°	335.6	344.7	352.1	362.3	370.7	382.8	396.7	408.2	418.8	426.4	434.5
42.5°	262.0	273.6	289.1	304.1	319.1	335.6	353.9	369.7	383.6	394.3	402.7
45°	204.0	220.2	238.9	257.9	277.3	297.8	316.9	333.0	347.7	358.7	367.1
47.5°	164.5	182.1	203.3	224.2	246.2	267.8	289.1	303.0	315.1	323.9	331.6
50°	135.9	154.6	177.0	200.8	222.7	244.4	262.7	276.2	286.2	293.8	298.6
52.5°	113.6	133.4	157.2	180.9	203.0	222.7	239.2	249.5	257.6	263.1	267.5
55°	93.8	112.9	135.2	157.5	179.1	197.9	211.4	219.0	225.3	228.6	231.2
57.5°	76.6	94.2	114.7	135.2	153.9	169.3	179.9	187.5	190.5	193.0	192.7
60°	60.1	76.6	95.3	112.9	128.9	141.5	149.1	153.5	155.7	156.8	156.0
62.5°	47.3	62.3	76.6	91.9	103.7	114.3	121.6	121.6	122.7	123.1	124.2
65°	35.2	46.5	59.0	70.4	79.8	86.9	90.9	91.9	93.4	93.0	92.4
67.5°	26.0	34.4	43.6	52.0	58.6	63.0	65.9	68.5	68.2	67.4	67.0
70°	17.9	23.4	31.5	36.7	41.4	45.8	46.5	46.9	47.3	47.6	46.9
72.5°	12.4	16.5	20.9	25.3	28.2	30.0	31.8	32.3	32.3	32.3	31.8
75°	6.3	8.4	12.4	14.2	16.8	17.6	19.1	19.1	20.2	18.7	18.3
77.5°	5.5	6.6	8.7	10.2	11.3	12.4	12.8	13.9	13.6	12.8	13.2
80°	3.3	4.0	5.5	6.3	7.7	8.1	8.4	8.7	8.4	8.7	8.7
82.5°	2.6	2.9	3.7	3.7	4.7	4.7	5.2	5.2	5.5	5.5	5.5
85°	1.5	2.6	2.2	4.4	2.9	2.9	3.7	4.4	3.7	3.7	4.4
87.5°	1.5	1.5	1.1	1.5	1.5	1.5	1.8	2.2	2.2	2.6	2.2
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):

	165°	170°	175°	180°
0°	682.6	682.6	682.6	682.6
2.5°	683.7	684.4	683.2	682.9
5°	684.7	684.7	684.0	684.0
7.5°	684.7	684.7	683.7	682.9
10°	681.8	681.8	680.7	680.0
12.5°	676.3	676.3	676.0	674.8
15°	669.3	669.3	667.9	666.8
17.5°	659.8	660.6	658.7	658.7
20°	649.6	649.2	647.7	647.0
22.5°	639.0	638.2	637.8	635.6
25°	627.6	626.9	625.7	624.6
27.5°	608.1	607.8	606.7	605.2
30°	578.5	578.1	576.6	576.6
32.5°	540.0	539.6	538.2	538.5
35°	500.1	501.5	500.9	499.4
37.5°	466.8	467.9	468.6	467.9
40°	438.9	442.2	442.6	443.4
42.5°	409.3	413.6	415.1	415.8
45°	373.7	377.8	381.0	380.2
47.5°	337.4	340.3	343.3	341.1
50°	302.7	304.5	305.6	305.6
52.5°	269.6	269.6	269.3	269.6
55°	231.9	231.9	230.5	231.2
57.5°	192.4	193.0	192.0	190.1
60°	155.7	153.9	153.1	152.0
62.5°	121.3	121.3	118.7	122.0
65°	90.9	89.8	88.7	88.3
67.5°	65.9	65.6	64.5	64.1
70°	46.5	45.1	44.7	43.9
72.5°	31.2	31.2	30.4	30.4
75°	19.1	17.3	16.8	17.3
77.5°	13.2	12.8	12.8	12.4
80°	8.7	8.4	9.2	8.1
82.5°	5.5	5.8	5.5	5.8
85°	3.7	4.4	4.0	4.0
87.5°	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)