

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: P246091

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246091
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 EC8B15927 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1199.2 lumens
Efficiency: N/A
Efficacy: 83.3 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

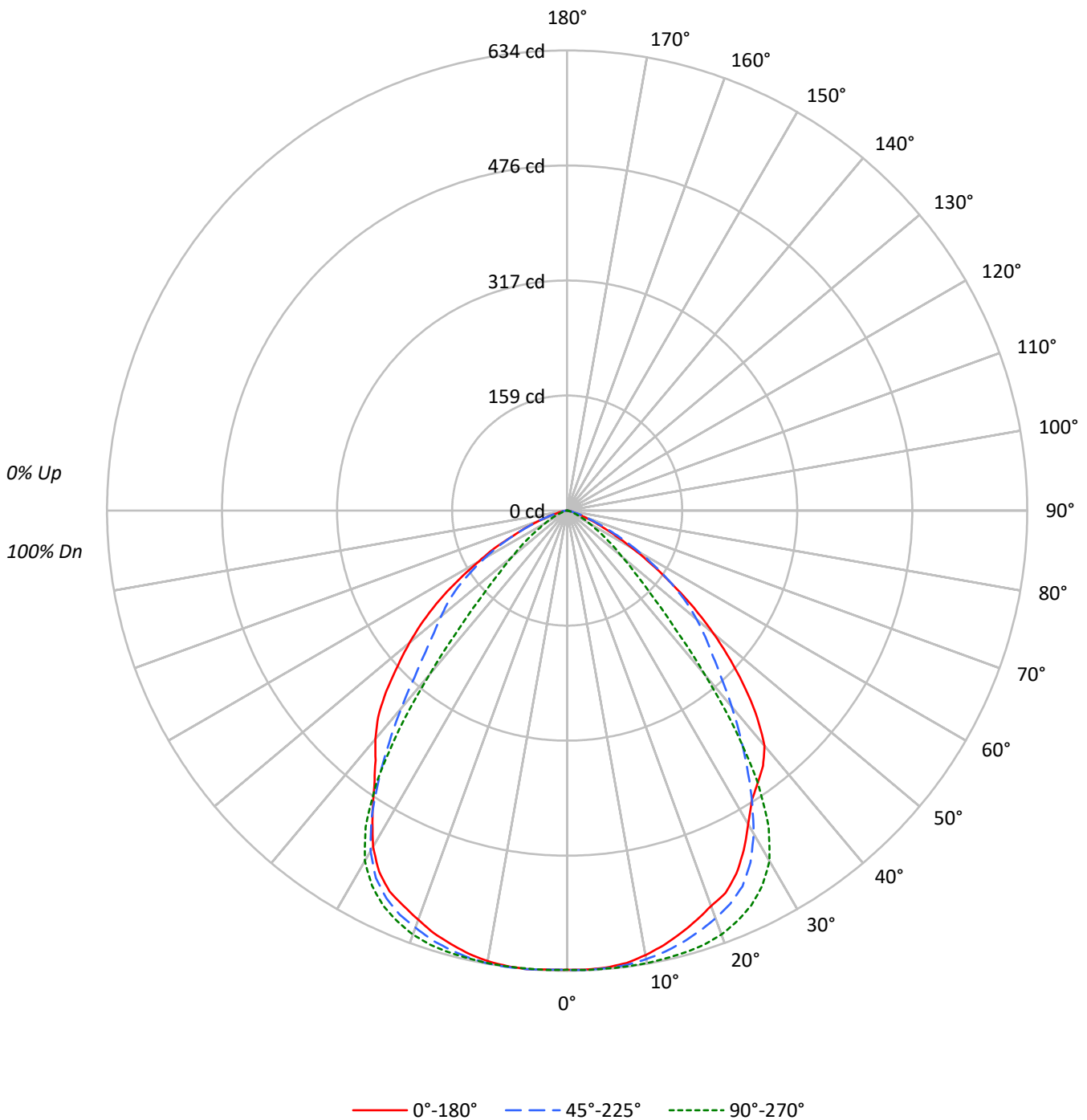
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	52	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°	60.4	5.0
10°-20°	175.4	14.6
20°-30°	266.2	22.2
30°-40°	279.6	23.3
40°-50°	209.6	17.5
50°-60°	134.5	11.2
60°-70°	57.5	4.8
70°-80°	13.6	1.1
80°-90°	2.5	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°	501.9	41.9
0°-40°	781.5	65.2
0°-60°	1125.6	93.9
0°-90°	1199.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	633	633	633	633	633	
5°	632	633	633	634	634	60
15°	603	616	630	626	618	170
25°	552	571	600	589	579	252
35°	458	432	458	453	463	287
45°	348	284	163	276	353	266
55°	176	176	61	183	214	160
65°	53	63	19	81	82	57
75°	8	10	3	16	16	12
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°	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
2.5°	633.0	633.8	633.4	633.4	633.0	633.4	633.4	634.2	634.2	633.4	633.0
5°	631.7	632.4	632.4	631.7	631.7	633.4	632.4	633.0	633.0	632.7	632.7
7.5°	628.6	628.6	630.0	629.0	629.0	630.0	629.7	630.3	631.0	631.4	631.4
10°	621.9	622.6	622.9	622.9	623.2	624.3	624.9	626.3	627.0	627.6	628.0
12.5°	613.4	614.4	614.7	614.4	615.4	616.8	618.5	620.2	621.2	622.6	623.6
15°	603.2	603.2	603.9	604.9	605.6	607.6	609.3	611.3	614.0	615.8	617.5
17.5°	592.0	592.6	593.7	593.7	595.0	598.4	599.5	602.6	605.6	607.3	610.6
20°	579.7	580.4	581.5	582.2	583.9	586.6	588.6	591.3	594.7	597.8	601.2
22.5°	570.3	568.9	569.6	570.3	571.9	574.3	576.7	580.1	583.5	586.6	589.9
25°	551.9	552.3	553.3	553.9	556.0	558.0	560.7	564.9	567.9	571.3	575.0
27.5°	527.2	527.5	529.2	529.2	530.9	534.3	535.9	539.3	543.4	546.9	551.2
30°	498.9	499.6	499.6	501.0	502.0	503.7	505.4	508.7	510.9	513.9	520.0
32.5°	473.2	473.8	473.4	473.2	472.0	471.7	471.4	472.0	472.7	473.8	476.2
35°	457.9	456.2	454.7	452.4	449.7	446.3	443.2	439.2	435.4	432.3	429.0
37.5°	443.2	442.9	440.9	437.4	432.0	425.9	418.7	410.0	401.1	391.6	382.4
40°	422.9	421.9	420.2	415.4	409.3	401.7	392.3	381.4	367.2	352.6	337.6
42.5°	388.2	388.6	386.6	382.7	377.0	369.9	360.0	348.2	332.9	315.6	296.2
45°	347.7	347.7	347.1	344.0	340.0	334.2	326.7	316.9	302.0	284.3	263.6
47.5°	305.7	306.0	305.0	304.3	302.6	298.9	293.4	286.0	275.4	258.4	237.7
50°	262.9	262.9	264.6	264.3	264.3	262.9	260.6	256.0	246.9	233.3	214.0
52.5°	220.0	220.7	221.7	223.1	224.9	227.6	224.9	222.8	217.0	206.6	189.9
55°	176.0	176.6	178.3	180.7	182.7	185.4	186.1	186.1	183.0	176.0	163.4
57.5°	138.3	137.2	138.6	140.6	143.3	146.0	148.0	150.4	150.1	145.4	135.2
60°	104.0	104.3	105.3	107.3	109.4	111.7	114.4	116.6	117.6	115.1	108.7
62.5°	75.7	75.7	77.1	79.1	80.1	83.6	85.3	86.3	87.3	87.0	82.9
65°	53.0	53.7	54.3	55.4	56.4	58.4	59.4	61.4	62.1	62.6	59.4
67.5°	37.4	36.3	37.0	37.7	38.7	40.1	42.1	42.1	43.1	43.1	41.1
70°	23.7	23.7	24.1	25.1	25.8	26.1	26.9	27.6	28.6	28.2	28.2
72.5°	16.0	15.6	16.0	16.3	16.7	17.7	17.7	18.0	18.7	19.0	17.7
75°	8.1	8.4	9.1	8.9	9.9	9.1	9.6	10.6	10.2	9.6	9.6
77.5°	6.8	6.8	6.8	6.4	7.1	7.1	6.8	7.4	7.1	7.1	6.8
80°	4.7	5.1	4.7	4.4	4.7	4.4	4.4	4.4	4.4	4.4	4.0
82.5°	3.7	3.0	3.4	3.0	3.4	3.4	3.0	2.7	2.7	3.0	2.7
85°	2.7	2.0	2.4	2.4	2.0	2.0	2.0	2.0	2.0	1.7	1.7
87.5°	1.7	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°	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
2.5°	633.8	633.4	634.2	633.8	633.8	633.4	633.8	633.4	634.2	632.7	633.0
5°	633.8	633.0	633.4	633.8	634.2	633.4	633.4	633.4	634.2	633.4	633.8
7.5°	632.4	632.0	633.0	633.8	633.4	633.0	633.8	633.4	634.2	633.8	634.4
10°	629.7	630.0	630.7	631.7	632.0	632.4	633.0	633.0	634.2	632.7	633.4
12.5°	625.6	627.0	628.6	629.3	630.7	630.7	631.4	631.7	632.4	632.0	633.0
15°	620.6	622.2	624.3	625.9	627.6	628.6	629.7	630.0	631.0	630.0	630.3
17.5°	614.4	616.4	619.5	621.6	624.3	625.3	626.6	627.3	628.3	627.6	628.0
20°	605.9	608.3	611.7	614.7	616.4	618.9	620.6	621.6	622.2	621.6	621.9
22.5°	594.0	597.4	601.9	604.2	607.6	609.6	610.0	612.3	614.0	612.3	613.0
25°	580.1	583.5	586.9	592.0	595.0	597.4	599.8	600.2	601.9	601.5	601.2
27.5°	557.0	561.4	567.2	571.3	575.3	579.0	581.8	582.5	584.2	583.5	583.9
30°	525.4	530.2	535.6	542.0	547.9	551.6	555.0	557.3	559.0	558.0	557.7
32.5°	480.6	485.3	491.2	497.6	504.3	509.8	513.9	516.9	519.0	518.3	516.6
35°	429.3	430.6	434.4	439.5	445.3	451.0	454.7	458.2	460.6	461.2	461.2
37.5°	376.7	372.3	369.6	369.6	372.9	375.3	378.7	380.7	384.5	385.9	386.9
40°	325.7	315.6	306.0	298.9	294.1	293.7	293.7	294.8	298.2	302.6	306.7
42.5°	280.2	263.9	249.3	236.0	226.6	221.1	218.7	219.0	221.7	225.9	232.6
45°	243.9	223.5	205.1	189.2	176.3	167.7	163.7	163.4	165.4	170.1	177.6
47.5°	215.7	194.0	173.2	154.9	141.0	131.7	127.0	125.7	127.0	131.4	140.3
50°	192.3	169.9	148.4	129.4	114.4	105.0	100.6	98.9	100.6	104.3	113.1
52.5°	170.5	147.4	127.4	109.0	93.0	84.9	80.1	79.1	80.1	84.6	91.7
55°	145.4	125.7	106.0	87.6	73.7	65.6	61.8	60.8	61.8	65.9	73.4
57.5°	120.6	103.6	86.3	69.6	57.7	50.6	47.2	45.9	48.3	51.0	59.7
60°	97.4	83.9	69.3	54.7	44.9	38.4	35.7	35.3	36.0	39.4	45.6
62.5°	76.4	65.2	53.7	41.7	33.6	30.9	27.6	27.2	27.9	29.9	34.6
65°	55.0	47.9	39.0	30.6	24.1	20.4	19.0	19.3	20.0	21.4	25.8
67.5°	38.4	33.3	27.2	21.4	16.7	15.0	13.6	13.3	13.6	16.0	18.3
70°	25.8	22.7	18.3	16.3	11.6	9.1	9.6	8.4	9.9	9.9	11.9
72.5°	17.0	15.0	12.3	9.6	8.1	6.4	6.4	6.1	6.8	7.1	8.9
75°	8.9	6.8	6.8	4.7	3.4	1.7	3.0	2.7	2.4	2.7	3.4
77.5°	6.1	5.1	4.7	3.7	3.4	2.7	2.7	2.7	2.7	3.0	3.4
80°	3.7	3.7	2.7	2.4	2.0	1.7	2.0	2.0	2.0	2.0	2.4
82.5°	2.4	2.0	2.0	1.7	1.7	1.3	1.3	1.3	1.3	1.3	2.0
85°	2.0	1.3	1.3	1.0	1.3	2.4	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	1.7	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°	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
2.5°	633.8	634.2	634.2	633.8	633.8	633.0	634.4	633.4	633.8	635.2	634.2
5°	634.4	634.8	634.8	634.4	634.4	634.4	634.8	634.8	634.4	634.2	634.8
7.5°	635.8	635.5	635.5	634.8	634.8	634.2	634.8	633.8	634.4	633.8	634.8
10°	634.2	634.4	634.2	633.8	633.8	633.4	633.4	632.4	632.7	631.7	632.4
12.5°	633.0	632.7	632.7	632.0	631.4	630.7	630.3	629.3	629.3	627.0	628.0
15°	630.3	630.7	629.7	628.3	627.6	625.9	625.3	623.9	622.6	620.9	621.2
17.5°	628.0	627.0	625.6	624.3	621.6	620.2	618.9	616.8	616.1	614.0	613.4
20°	620.9	620.2	618.5	616.1	614.4	611.3	610.0	607.9	606.3	604.2	603.2
22.5°	611.7	611.0	609.0	606.6	603.9	602.6	601.2	597.4	595.7	593.7	593.3
25°	600.2	599.2	597.0	594.3	593.0	589.3	587.9	585.2	584.6	582.5	582.2
27.5°	582.5	581.2	578.7	575.3	573.0	570.6	569.2	567.2	566.6	564.5	564.2
30°	556.0	554.3	549.6	548.2	544.1	541.7	541.7	539.0	539.3	538.0	538.0
32.5°	514.2	511.5	507.7	505.0	502.3	501.0	501.0	500.0	500.6	500.6	501.3
35°	458.9	455.2	453.0	451.4	451.4	452.7	456.9	457.9	459.9	461.6	462.9
37.5°	387.9	387.6	389.9	392.0	397.0	402.9	410.0	416.0	421.9	425.9	430.0
40°	311.1	319.6	326.4	335.9	343.7	354.9	367.9	378.3	388.2	395.3	402.9
42.5°	242.9	253.7	268.0	281.9	295.9	311.1	328.0	342.7	355.6	365.4	373.3
45°	189.2	204.1	221.4	239.1	257.1	276.1	293.7	308.7	322.3	332.6	340.3
47.5°	152.5	168.8	188.5	207.9	228.3	248.3	268.0	280.9	292.0	300.3	307.3
50°	126.0	143.3	164.0	186.1	206.6	226.6	243.6	256.0	265.3	272.4	276.8
52.5°	105.3	123.6	145.7	167.7	188.2	206.6	221.7	231.3	238.7	243.9	248.0
55°	87.0	104.6	125.3	146.0	166.0	183.4	196.0	203.1	208.9	212.0	214.3
57.5°	71.0	87.3	106.3	125.3	142.6	156.9	166.7	173.9	176.6	179.0	178.6
60°	55.7	71.0	88.3	104.6	119.6	131.1	138.3	142.3	144.3	145.4	144.7
62.5°	43.8	57.7	71.0	85.3	96.1	106.0	112.7	112.7	113.7	114.1	115.1
65°	32.6	43.1	54.7	65.2	74.0	80.6	84.3	85.3	86.6	86.3	85.6
67.5°	24.1	32.0	40.4	48.3	54.3	58.4	61.1	63.6	63.2	62.6	62.1
70°	16.7	21.7	29.2	34.0	38.4	42.4	43.1	43.4	43.8	44.1	43.4
72.5°	11.6	15.3	19.3	23.4	26.1	27.9	29.6	29.9	29.9	29.9	29.6
75°	5.7	7.8	11.6	13.3	15.6	16.3	17.7	17.7	18.7	17.3	17.0
77.5°	5.1	6.1	8.1	9.6	10.6	11.6	11.9	12.9	12.6	11.9	12.3
80°	3.0	3.7	5.1	5.7	7.1	7.4	7.8	8.1	7.8	8.1	8.1
82.5°	2.4	2.7	3.4	3.4	4.4	4.4	4.7	4.7	5.1	5.1	5.1
85°	1.3	2.4	2.0	4.0	2.7	2.7	3.4	4.0	3.4	3.4	4.0
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.7	2.0	2.0	2.4	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°	632.7	632.7	632.7	632.7
2.5°	633.8	634.4	633.4	633.0
5°	634.8	634.8	634.2	634.2
7.5°	634.8	634.8	633.8	633.0
10°	632.0	632.0	631.0	630.3
12.5°	627.0	627.0	626.6	625.6
15°	620.6	620.6	619.2	618.2
17.5°	611.7	612.3	610.6	610.6
20°	602.2	601.9	600.5	599.8
22.5°	592.3	591.6	591.3	589.3
25°	581.8	581.2	580.1	579.0
27.5°	563.8	563.5	562.4	561.0
30°	536.3	535.9	534.6	534.6
32.5°	500.6	500.3	498.9	499.3
35°	463.6	465.0	464.3	462.9
37.5°	432.7	433.7	434.4	433.7
40°	406.9	410.0	410.3	411.0
42.5°	379.3	383.4	384.9	385.5
45°	346.4	350.2	353.2	352.6
47.5°	312.8	315.6	318.3	316.2
50°	280.6	282.3	283.3	283.3
52.5°	250.0	250.0	249.6	250.0
55°	215.0	215.0	213.6	214.3
57.5°	178.3	179.0	178.0	176.3
60°	144.3	142.6	142.0	141.0
62.5°	112.4	112.4	110.0	113.1
65°	84.3	83.2	82.2	81.9
67.5°	61.1	60.8	59.7	59.4
70°	43.1	41.7	41.4	40.7
72.5°	28.9	28.9	28.2	28.2
75°	17.7	16.0	15.6	16.0
77.5°	12.3	11.9	11.9	11.6
80°	8.1	7.8	8.4	7.4
82.5°	5.1	5.4	5.1	5.4
85°	3.4	4.0	3.7	3.7
87.5°	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)