

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: P246097

Luminaire Tested: **LSR8B15D010 EC8B15930 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246097
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 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1264.5 lumens
Efficiency: N/A
Efficacy: 87.8 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

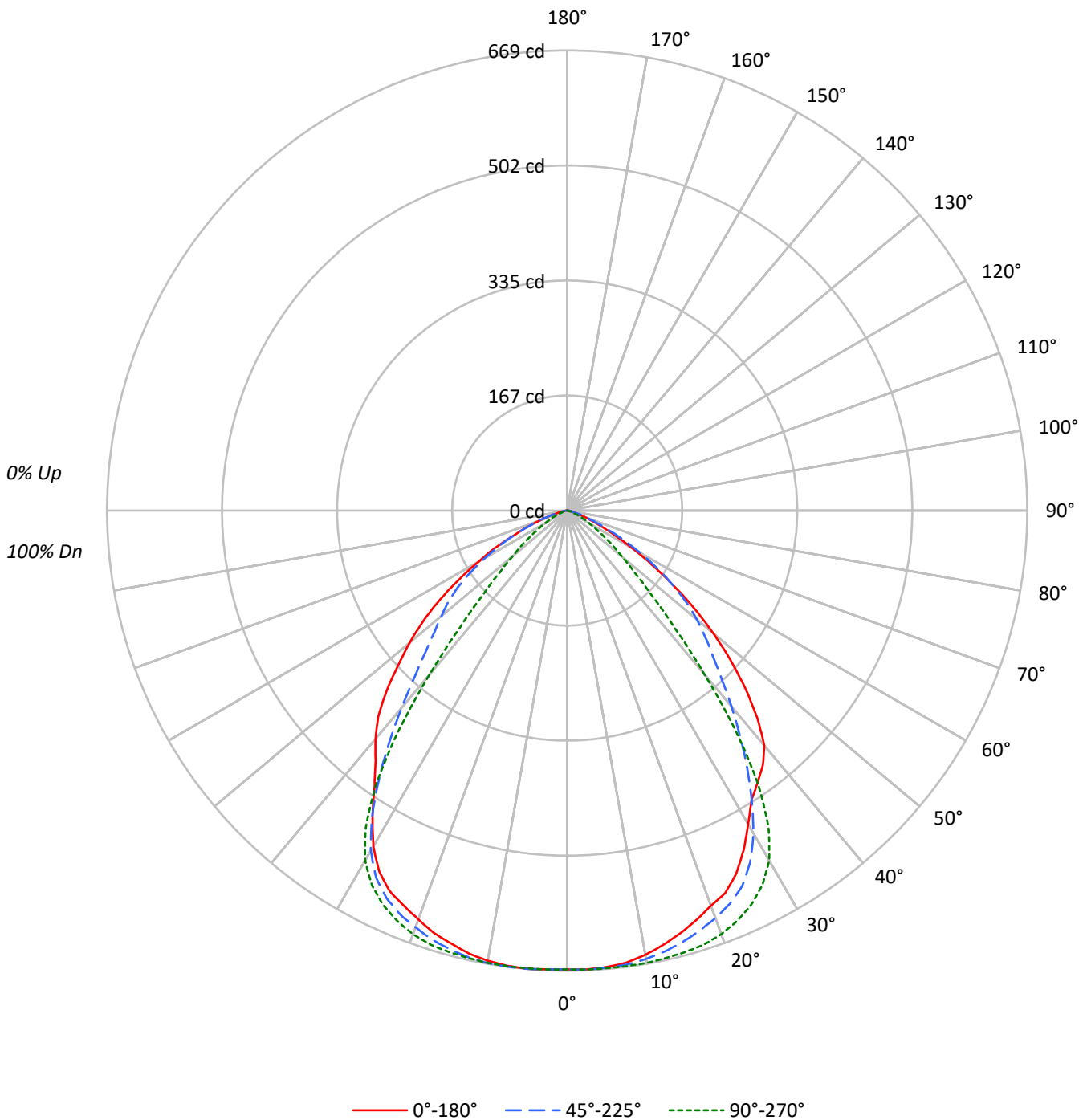
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	63.7	5.0
10°-20°	184.9	14.6
20°-30°	280.7	22.2
30°-40°	294.8	23.3
40°-50°	221.0	17.5
50°-60°	141.8	11.2
60°-70°	60.7	4.8
70°-80°	14.3	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°	529.2	41.9
0°-40°	824.0	65.2
0°-60°	1186.8	93.9
0°-90°	1264.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	667	667	667	667	667	
5°	666	667	668	669	669	63
15°	636	649	664	660	652	179
25°	582	602	633	621	611	266
35°	483	456	483	477	488	303
45°	367	300	172	291	372	281
55°	186	186	64	193	226	168
65°	56	66	20	85	86	60
75°	9	10	3	17	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°	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2
2.5°	667.6	668.2	667.9	667.9	667.6	667.9	667.9	668.6	668.6	667.9	667.6
5°	666.1	666.8	666.8	666.1	666.1	667.9	666.8	667.6	667.6	667.2	667.2
7.5°	662.8	662.8	664.3	663.2	663.2	664.3	664.0	664.6	665.4	665.8	665.8
10°	655.7	656.5	656.8	656.8	657.1	658.3	658.9	660.4	661.1	661.8	662.2
12.5°	646.7	647.8	648.2	647.8	648.9	650.3	652.1	653.9	655.0	656.5	657.5
15°	636.1	636.1	636.7	637.8	638.5	640.7	642.4	644.6	647.5	649.3	651.1
17.5°	624.2	625.0	626.0	626.0	627.4	631.0	632.0	635.3	638.5	640.3	643.9
20°	611.3	612.1	613.1	613.9	615.7	618.5	620.6	623.5	627.1	630.3	633.8
22.5°	601.3	599.8	600.5	601.3	603.1	605.6	608.0	611.6	615.2	618.5	622.0
25°	581.9	582.2	583.4	584.0	586.3	588.4	591.2	595.6	598.7	602.3	606.2
27.5°	555.8	556.1	557.9	557.9	559.7	563.3	565.1	568.7	572.9	576.5	581.2
30°	526.1	526.8	526.8	528.2	529.3	531.1	532.9	536.5	538.6	541.8	548.3
32.5°	498.8	499.5	499.2	498.8	497.8	497.4	497.1	497.8	498.5	499.5	502.1
35°	482.7	480.9	479.6	477.0	474.2	470.6	467.3	463.1	459.0	455.9	452.3
37.5°	467.3	467.0	464.9	461.3	455.6	449.1	441.6	432.3	423.0	412.9	403.2
40°	445.8	444.8	443.0	438.0	431.5	423.6	413.6	402.2	387.1	371.7	355.9
42.5°	409.3	409.7	407.5	403.6	397.5	390.0	379.6	367.0	351.0	332.7	312.3
45°	366.7	366.7	366.0	362.8	358.5	352.3	344.5	334.2	318.4	299.8	277.9
47.5°	322.3	322.6	321.6	320.8	319.0	315.1	309.4	301.5	290.5	272.5	250.7
50°	277.2	277.2	279.0	278.6	278.6	277.2	274.6	270.0	260.3	246.1	225.7
52.5°	232.0	232.8	233.8	235.3	237.1	239.9	237.1	235.0	228.8	217.7	200.2
55°	185.5	186.2	188.0	190.6	192.7	195.5	196.3	196.3	193.0	185.5	172.3
57.5°	145.7	144.7	146.1	148.3	151.1	154.0	156.2	158.6	158.3	153.2	142.5
60°	109.6	110.0	111.0	113.2	115.4	117.8	120.7	122.9	123.9	121.4	114.6
62.5°	79.8	79.8	81.3	83.4	84.5	88.1	89.9	90.9	92.0	91.7	87.3
65°	55.8	56.6	57.3	58.4	59.4	61.5	62.7	64.8	65.6	65.9	62.7
67.5°	39.3	38.3	39.0	39.8	40.8	42.3	44.4	44.4	45.5	45.5	43.4
70°	25.1	25.1	25.4	26.5	27.2	27.6	28.2	29.0	30.0	29.7	29.7
72.5°	16.8	16.5	16.8	17.2	17.6	18.6	18.6	18.9	19.7	20.1	18.6
75°	8.6	9.0	9.6	9.3	10.4	9.6	10.0	11.1	10.8	10.0	10.0
77.5°	7.2	7.2	7.2	6.8	7.5	7.5	7.2	7.8	7.5	7.5	7.2
80°	5.0	5.4	5.0	4.7	5.0	4.7	4.7	4.7	4.7	4.7	4.3
82.5°	3.9	3.3	3.6	3.3	3.6	3.6	3.3	2.9	2.9	3.3	2.9
85°	2.9	2.1	2.5	2.5	2.1	2.1	2.1	2.1	2.1	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	0.7
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°	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2
2.5°	668.2	667.9	668.6	668.2	668.2	667.9	668.2	667.9	668.6	667.2	667.6
5°	668.2	667.6	667.9	668.2	668.6	667.9	667.9	667.9	668.6	667.9	668.2
7.5°	666.8	666.4	667.6	668.2	667.9	667.6	668.2	667.9	668.6	668.2	668.9
10°	664.0	664.3	665.0	666.1	666.4	666.8	667.6	667.6	668.6	667.2	667.9
12.5°	659.6	661.1	662.8	663.6	665.0	665.0	665.8	666.1	666.8	666.4	667.6
15°	654.3	656.1	658.3	660.0	661.8	662.8	664.0	664.3	665.4	664.3	664.6
17.5°	647.8	650.0	653.2	655.3	658.3	659.3	660.7	661.4	662.5	661.8	662.2
20°	638.9	641.4	644.9	648.2	650.0	652.5	654.3	655.3	656.1	655.3	655.7
22.5°	626.3	629.9	634.6	637.1	640.7	642.8	643.2	645.7	647.5	645.7	646.4
25°	611.6	615.2	618.8	624.2	627.4	629.9	632.5	632.8	634.6	634.3	633.8
27.5°	587.3	592.0	598.1	602.3	606.7	610.6	613.4	614.2	616.0	615.2	615.7
30°	554.0	559.0	564.8	571.6	577.7	581.6	585.2	587.6	589.4	588.4	588.1
32.5°	506.7	511.7	517.8	524.6	531.8	537.5	541.8	545.0	547.2	546.5	544.7
35°	452.7	454.1	458.0	463.4	469.5	475.5	479.6	483.0	485.6	486.3	486.3
37.5°	397.2	392.5	389.7	389.7	393.2	395.7	399.3	401.4	405.4	406.8	407.9
40°	343.5	332.7	322.6	315.1	310.2	309.7	309.7	310.9	314.4	319.0	323.4
42.5°	295.5	278.2	262.9	248.9	238.9	233.2	230.6	231.0	233.8	238.1	245.3
45°	257.2	235.6	216.4	199.4	185.9	176.9	172.6	172.3	174.4	179.4	187.3
47.5°	227.5	204.5	182.6	163.3	148.6	138.9	134.0	132.5	134.0	138.6	147.9
50°	202.7	179.0	156.5	136.4	120.7	110.6	106.0	104.3	106.0	110.0	119.3
52.5°	179.8	155.4	134.3	114.9	98.1	89.6	84.5	83.4	84.5	89.1	96.7
55°	153.2	132.5	111.8	92.4	77.7	69.2	65.1	64.1	65.1	69.5	77.3
57.5°	127.1	109.2	90.9	73.4	60.9	53.4	49.8	48.3	50.9	53.7	63.0
60°	102.8	88.4	73.1	57.6	47.3	40.5	37.6	37.2	38.0	41.6	48.0
62.5°	80.6	68.7	56.6	44.1	35.4	32.6	29.0	28.7	29.4	31.5	36.5
65°	58.1	50.4	41.1	32.2	25.4	21.5	20.1	20.4	21.1	22.5	27.2
67.5°	40.5	35.1	28.7	22.5	17.6	15.8	14.3	14.0	14.3	16.8	19.4
70°	27.2	24.0	19.4	17.2	12.2	9.6	10.0	9.0	10.4	10.4	12.6
72.5°	17.9	15.8	12.9	10.0	8.6	6.8	6.8	6.5	7.2	7.5	9.3
75°	9.3	7.2	7.2	5.0	3.6	1.8	3.3	2.9	2.5	2.9	3.6
77.5°	6.5	5.4	5.0	3.9	3.6	2.9	2.9	2.9	2.9	3.3	3.6
80°	3.9	3.9	2.9	2.5	2.1	1.8	2.1	2.1	2.1	2.1	2.5
82.5°	2.5	2.1	2.1	1.8	1.8	1.5	1.5	1.5	1.5	1.5	2.1
85°	2.1	1.5	1.5	1.1	1.5	2.5	1.1	1.5	1.5	1.5	1.1
87.5°	0.7	1.1	1.1	1.1	0.7	0.3	0.7	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°	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2	667.2
2.5°	668.2	668.6	668.6	668.2	668.2	667.6	668.9	667.9	668.2	669.7	668.6
5°	668.9	669.3	669.3	668.9	668.9	668.9	669.3	669.3	668.9	668.6	669.3
7.5°	670.4	670.0	670.0	669.3	669.3	668.6	669.3	668.2	668.9	668.2	669.3
10°	668.6	668.9	668.6	668.2	668.2	667.9	667.9	666.8	667.2	666.1	666.8
12.5°	667.6	667.2	667.2	666.4	665.8	665.0	664.6	663.6	663.6	661.1	662.2
15°	664.6	665.0	664.0	662.5	661.8	660.0	659.3	657.8	656.5	654.7	655.0
17.5°	662.2	661.1	659.6	658.3	655.3	653.9	652.5	650.3	649.6	647.5	646.7
20°	654.7	653.9	652.1	649.6	647.8	644.6	643.2	641.0	639.2	637.1	636.1
22.5°	644.9	644.2	642.1	639.6	636.7	635.3	633.8	629.9	628.1	626.0	625.6
25°	632.8	631.7	629.6	626.8	625.3	621.4	619.9	617.0	616.3	614.2	613.9
27.5°	614.2	612.7	610.3	606.7	604.1	601.6	600.2	598.1	597.4	595.1	594.8
30°	586.3	584.5	579.4	578.0	573.7	571.1	571.1	568.3	568.7	567.2	567.2
32.5°	542.2	539.3	535.4	532.5	529.7	528.2	528.2	527.1	527.9	527.9	528.6
35°	483.8	479.9	477.8	476.0	476.0	477.3	481.7	482.7	484.9	486.6	488.1
37.5°	408.9	408.6	411.1	413.3	418.7	424.7	432.3	438.6	444.8	449.1	453.3
40°	328.0	337.0	344.1	354.2	362.4	374.2	387.9	399.0	409.3	416.9	424.7
42.5°	256.0	267.5	282.6	297.3	312.0	328.0	345.9	361.3	375.0	385.3	393.6
45°	199.4	215.2	233.5	252.1	271.1	291.1	309.7	325.5	339.9	350.6	358.8
47.5°	160.8	178.0	198.8	219.2	240.7	261.8	282.6	296.2	307.9	316.6	324.1
50°	132.8	151.1	173.0	196.3	217.7	238.9	256.8	270.0	279.7	287.2	291.9
52.5°	111.0	130.4	153.6	176.9	198.4	217.7	233.8	243.9	251.8	257.2	261.4
55°	91.7	110.3	132.2	154.0	175.1	193.4	206.6	214.1	220.3	223.4	226.0
57.5°	74.9	92.0	112.1	132.2	150.4	165.5	175.9	183.4	186.2	188.8	188.3
60°	58.7	74.9	93.2	110.3	126.1	138.2	145.7	150.1	152.2	153.2	152.6
62.5°	46.2	60.9	74.9	89.9	101.3	111.8	118.9	118.9	119.9	120.3	121.4
65°	34.4	45.5	57.6	68.7	78.0	84.9	88.8	89.9	91.4	90.9	90.2
67.5°	25.4	33.6	42.6	50.9	57.3	61.5	64.5	66.9	66.6	65.9	65.6
70°	17.6	22.9	30.8	35.8	40.5	44.7	45.5	45.8	46.2	46.5	45.8
72.5°	12.2	16.1	20.4	24.7	27.6	29.4	31.2	31.5	31.5	31.5	31.2
75°	6.1	8.2	12.2	14.0	16.5	17.2	18.6	18.6	19.7	18.3	17.9
77.5°	5.4	6.5	8.6	10.0	11.1	12.2	12.6	13.6	13.2	12.6	12.9
80°	3.3	3.9	5.4	6.1	7.5	7.8	8.2	8.6	8.2	8.6	8.6
82.5°	2.5	2.9	3.6	3.6	4.7	4.7	5.0	5.0	5.4	5.4	5.4
85°	1.5	2.5	2.1	4.3	2.9	2.9	3.6	4.3	3.6	3.6	4.3
87.5°	1.5	1.5	1.1	1.5	1.5	1.5	1.8	2.1	2.1	2.5	2.1
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°	667.2	667.2	667.2	667.2
2.5°	668.2	668.9	667.9	667.6
5°	669.3	669.3	668.6	668.6
7.5°	669.3	669.3	668.2	667.6
10°	666.4	666.4	665.4	664.6
12.5°	661.1	661.1	660.7	659.6
15°	654.3	654.3	652.9	651.7
17.5°	644.9	645.7	643.9	643.9
20°	634.9	634.6	633.1	632.5
22.5°	624.5	623.8	623.5	621.4
25°	613.4	612.7	611.6	610.6
27.5°	594.5	594.1	593.0	591.7
30°	565.4	565.1	563.6	563.6
32.5°	527.9	527.5	526.1	526.4
35°	488.9	490.2	489.5	488.1
37.5°	456.2	457.4	458.0	457.4
40°	429.0	432.3	432.6	433.4
42.5°	400.0	404.3	405.8	406.5
45°	365.2	369.3	372.4	371.7
47.5°	329.8	332.7	335.5	333.4
50°	295.8	297.6	298.6	298.6
52.5°	263.5	263.5	263.2	263.5
55°	226.7	226.7	225.2	226.0
57.5°	188.0	188.8	187.7	185.9
60°	152.2	150.4	149.7	148.6
62.5°	118.5	118.5	116.0	119.3
65°	88.8	87.8	86.7	86.3
67.5°	64.5	64.1	63.0	62.7
70°	45.5	44.1	43.7	42.9
72.5°	30.5	30.5	29.7	29.7
75°	18.6	16.8	16.5	16.8
77.5°	12.9	12.6	12.6	12.2
80°	8.6	8.2	9.0	7.8
82.5°	5.4	5.7	5.4	5.7
85°	3.6	4.3	3.9	3.9
87.5°	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)