

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: P246096

Luminaire Tested: **LSR8B10D010 EC8B10930 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246096
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: LSR8B10D010 EC8B10930 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: 932.7 lumens
Efficiency: N/A
Efficacy: 91.4 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

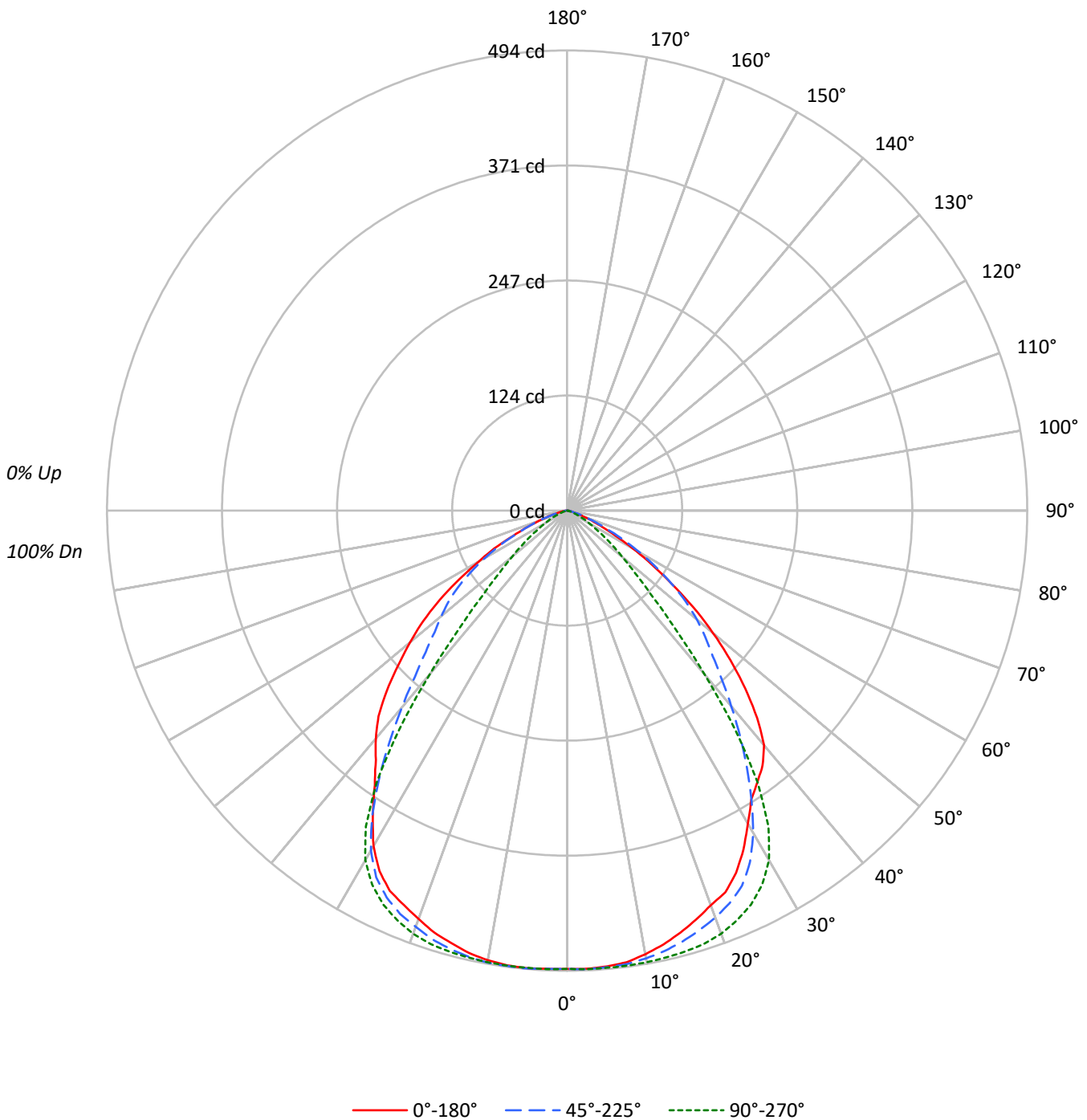
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	47.0	5.0
10°-20°	136.4	14.6
20°-30°	207.0	22.2
30°-40°	217.4	23.3
40°-50°	163.0	17.5
50°-60°	104.6	11.2
60°-70°	44.7	4.8
70°-80°	10.6	1.1
80°-90°	2.0	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°	390.4	41.9
0°-40°	607.8	65.2
0°-60°	875.4	93.9
0°-90°	932.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	932.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	492	492	492	492	492	
5°	491	492	493	494	493	47
15°	469	479	490	487	481	132
25°	429	444	467	458	450	196
35°	356	336	356	352	360	223
45°	270	221	127	215	274	207
55°	137	137	47	143	167	124
65°	41	49	15	63	64	44
75°	6	7	2	13	12	9
85°	2	1	1	2	3	2
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°	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1
2.5°	492.3	492.9	492.7	492.7	492.3	492.7	492.7	493.1	493.1	492.7	492.3
5°	491.3	491.8	491.8	491.3	491.3	492.7	491.8	492.3	492.3	492.1	492.1
7.5°	489.0	489.0	490.0	489.2	489.2	490.0	489.8	490.2	490.8	491.0	491.0
10°	483.6	484.2	484.4	484.4	484.7	485.5	486.1	487.1	487.6	488.1	488.4
12.5°	477.1	477.9	478.1	477.9	478.7	479.7	481.0	482.4	483.2	484.2	484.9
15°	469.1	469.1	469.7	470.5	470.9	472.5	473.8	475.4	477.5	478.9	480.2
17.5°	460.4	461.0	461.7	461.7	462.7	465.4	466.2	468.6	470.9	472.3	475.0
20°	450.9	451.4	452.2	452.8	454.0	456.1	457.7	459.8	462.5	464.9	467.6
22.5°	443.5	442.5	443.0	443.5	444.8	446.7	448.5	451.2	453.8	456.1	458.8
25°	429.2	429.5	430.2	430.8	432.4	433.9	436.1	439.3	441.7	444.3	447.2
27.5°	409.9	410.2	411.5	411.5	412.9	415.4	416.8	419.5	422.6	425.3	428.7
30°	388.0	388.5	388.5	389.7	390.4	391.7	393.0	395.7	397.3	399.6	404.5
32.5°	367.9	368.5	368.2	367.9	367.1	366.9	366.7	367.1	367.7	368.5	370.4
35°	356.0	354.8	353.7	351.9	349.8	347.1	344.7	341.6	338.7	336.3	333.6
37.5°	344.7	344.5	342.8	340.2	336.0	331.3	325.7	318.8	312.0	304.6	297.4
40°	328.9	328.1	326.8	323.1	318.3	312.5	305.1	296.6	285.5	274.2	262.5
42.5°	301.9	302.2	300.5	297.7	293.3	287.6	280.0	270.7	258.8	245.4	230.4
45°	270.5	270.5	269.9	267.6	264.4	260.0	254.1	246.4	234.8	221.1	204.9
47.5°	237.8	238.0	237.2	236.6	235.3	232.5	228.2	222.4	214.2	201.0	184.9
50°	204.5	204.5	205.8	205.5	205.5	204.5	202.6	199.2	192.0	181.5	166.5
52.5°	171.2	171.7	172.5	173.5	174.9	177.0	174.9	173.3	168.8	160.6	147.6
55°	136.9	137.3	138.7	140.6	142.1	144.3	144.7	144.7	142.4	136.9	127.0
57.5°	107.5	106.7	107.7	109.4	111.4	113.6	115.1	117.0	116.7	113.1	105.1
60°	80.8	81.0	81.8	83.5	85.1	86.9	89.0	90.6	91.4	89.6	84.5
62.5°	58.9	58.9	60.0	61.5	62.3	65.0	66.3	67.1	67.9	67.6	64.5
65°	41.3	41.7	42.3	43.0	43.8	45.4	46.2	47.8	48.3	48.7	46.2
67.5°	29.0	28.2	28.8	29.4	30.2	31.2	32.7	32.7	33.5	33.5	31.9
70°	18.5	18.5	18.7	19.5	20.1	20.3	20.9	21.4	22.2	22.0	22.0
72.5°	12.4	12.1	12.4	12.7	12.9	13.8	13.8	14.0	14.6	14.8	13.8
75°	6.4	6.6	7.2	6.8	7.6	7.2	7.4	8.2	8.0	7.4	7.4
77.5°	5.3	5.3	5.3	5.0	5.5	5.5	5.3	5.8	5.5	5.5	5.3
80°	3.7	3.9	3.7	3.5	3.7	3.5	3.5	3.5	3.5	3.5	3.1
82.5°	2.9	2.4	2.7	2.4	2.7	2.7	2.4	2.1	2.1	2.4	2.1
85°	2.1	1.6	1.8	1.8	1.6	1.6	1.6	1.6	1.6	1.3	1.3
87.5°	1.3	0.8	0.8	0.8	1.0	1.0	1.0	0.8	1.0	1.0	0.6
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°	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1
2.5°	492.9	492.7	493.1	492.9	492.9	492.7	492.9	492.7	493.1	492.1	492.3
5°	492.9	492.3	492.7	492.9	493.1	492.7	492.7	492.7	493.1	492.7	492.9
7.5°	491.8	491.6	492.3	492.9	492.7	492.3	492.9	492.7	493.1	492.9	493.5
10°	489.8	490.0	490.5	491.3	491.6	491.8	492.3	492.3	493.1	492.1	492.7
12.5°	486.5	487.6	489.0	489.4	490.5	490.5	491.0	491.3	491.8	491.6	492.3
15°	482.6	483.9	485.5	486.9	488.1	489.0	489.8	490.0	490.8	490.0	490.2
17.5°	477.9	479.5	481.8	483.4	485.5	486.3	487.3	487.9	488.6	488.1	488.4
20°	471.3	473.1	475.8	478.1	479.5	481.2	482.6	483.4	483.9	483.4	483.6
22.5°	462.0	464.7	468.0	469.9	472.5	474.2	474.4	476.2	477.5	476.2	476.8
25°	451.2	453.8	456.5	460.4	462.7	464.7	466.4	466.8	468.0	467.8	467.6
27.5°	433.2	436.6	441.1	444.3	447.5	450.4	452.4	453.0	454.3	453.8	454.0
30°	408.6	412.3	416.6	421.6	426.1	429.0	431.6	433.5	434.7	433.9	433.7
32.5°	373.7	377.4	381.9	387.0	392.2	396.5	399.6	402.0	403.6	403.1	401.8
35°	333.8	335.0	337.9	341.8	346.3	350.8	353.7	356.4	358.2	358.7	358.7
37.5°	292.9	289.6	287.4	287.4	290.0	291.9	294.5	296.1	299.0	300.1	300.9
40°	253.3	245.4	238.0	232.5	228.8	228.5	228.5	229.2	231.9	235.3	238.5
42.5°	217.9	205.3	193.9	183.6	176.2	172.0	170.1	170.4	172.5	175.7	180.9
45°	189.7	173.8	159.5	147.1	137.1	130.5	127.3	127.0	128.7	132.3	138.1
47.5°	167.7	150.8	134.7	120.4	109.6	102.5	98.8	97.8	98.8	102.2	109.1
50°	149.5	132.1	115.5	100.7	89.0	81.6	78.1	76.9	78.1	81.0	88.0
52.5°	132.6	114.7	99.1	84.7	72.4	66.0	62.3	61.5	62.3	65.8	71.3
55°	113.1	97.8	82.4	68.2	57.3	51.0	48.1	47.3	48.1	51.2	57.1
57.5°	93.8	80.6	67.1	54.1	45.0	39.3	36.8	35.6	37.6	39.6	46.5
60°	75.8	65.2	53.9	42.5	34.9	29.8	27.7	27.5	28.0	30.6	35.4
62.5°	59.4	50.7	41.7	32.5	26.1	24.0	21.4	21.2	21.6	23.2	26.9
65°	42.8	37.2	30.4	23.8	18.7	15.8	14.8	15.0	15.6	16.6	20.1
67.5°	29.8	25.9	21.2	16.6	12.9	11.7	10.5	10.3	10.5	12.4	14.2
70°	20.1	17.7	14.2	12.7	9.0	7.2	7.4	6.6	7.6	7.6	9.2
72.5°	13.2	11.7	9.5	7.4	6.4	5.0	5.0	4.7	5.3	5.5	6.8
75°	6.8	5.3	5.3	3.7	2.7	1.3	2.4	2.1	1.8	2.1	2.7
77.5°	4.7	3.9	3.7	2.9	2.7	2.1	2.1	2.1	2.1	2.4	2.7
80°	2.9	2.9	2.1	1.8	1.6	1.3	1.6	1.6	1.6	1.6	1.8
82.5°	1.8	1.6	1.6	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.6
85°	1.6	1.0	1.0	0.8	1.0	1.8	0.8	1.0	1.0	1.0	0.8
87.5°	0.6	0.8	0.8	0.8	0.6	0.2	0.6	0.8	0.8	1.3	1.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1
2.5°	492.9	493.1	493.1	492.9	492.9	492.3	493.5	492.7	492.9	493.9	493.1
5°	493.5	493.7	493.7	493.5	493.5	493.5	493.7	493.7	493.5	493.1	493.7
7.5°	494.5	494.2	494.2	493.7	493.7	493.1	493.7	492.9	493.5	492.9	493.7
10°	493.1	493.5	493.1	492.9	492.9	492.7	492.7	491.8	492.1	491.3	491.8
12.5°	492.3	492.1	492.1	491.6	491.0	490.5	490.2	489.4	489.4	487.6	488.4
15°	490.2	490.5	489.8	488.6	488.1	486.9	486.3	485.3	484.2	482.8	483.2
17.5°	488.4	487.6	486.5	485.5	483.4	482.4	481.2	479.7	479.1	477.5	477.1
20°	482.8	482.4	481.0	479.1	477.9	475.4	474.4	472.8	471.5	469.9	469.1
22.5°	475.8	475.2	473.6	471.7	469.7	468.6	467.6	464.7	463.3	461.7	461.4
25°	466.8	466.0	464.3	462.3	461.2	458.3	457.3	455.1	454.6	453.0	452.8
27.5°	453.0	452.0	450.1	447.5	445.6	443.8	442.7	441.1	440.6	439.0	438.8
30°	432.4	431.0	427.3	426.3	423.2	421.3	421.3	419.1	419.5	418.4	418.4
32.5°	399.9	397.8	394.9	392.8	390.7	389.7	389.7	388.8	389.3	389.3	389.9
35°	356.8	353.9	352.3	351.1	351.1	352.1	355.2	356.0	357.6	358.9	360.1
37.5°	301.7	301.4	303.2	304.8	308.8	313.3	318.8	323.5	328.1	331.3	334.4
40°	241.9	248.5	253.8	261.2	267.4	276.0	286.1	294.3	301.9	307.5	313.3
42.5°	188.9	197.3	208.4	219.3	230.0	241.9	255.1	266.6	276.6	284.2	290.3
45°	147.1	158.7	172.2	186.0	200.0	214.8	228.5	240.1	250.7	258.6	264.7
47.5°	118.6	131.3	146.6	161.6	177.5	193.0	208.4	218.5	227.1	233.5	239.0
50°	98.0	111.4	127.6	144.7	160.6	176.2	189.3	199.2	206.3	211.9	215.2
52.5°	81.8	96.2	113.3	130.5	146.3	160.6	172.5	179.9	185.6	189.7	192.8
55°	67.6	81.4	97.4	113.6	129.1	142.6	152.5	157.9	162.4	164.8	166.7
57.5°	55.2	67.9	82.7	97.4	111.0	122.1	129.7	135.2	137.3	139.2	138.9
60°	43.3	55.2	68.7	81.4	92.9	102.0	107.5	110.6	112.2	113.1	112.5
62.5°	34.1	45.0	55.2	66.3	74.8	82.4	87.7	87.7	88.4	88.8	89.6
65°	25.3	33.5	42.5	50.7	57.6	62.6	65.5	66.3	67.4	67.1	66.6
67.5°	18.7	24.9	31.4	37.6	42.3	45.4	47.5	49.4	49.1	48.7	48.3
70°	12.9	16.9	22.8	26.5	29.8	33.1	33.5	33.9	34.1	34.3	33.9
72.5°	9.0	11.9	15.0	18.3	20.3	21.6	23.0	23.2	23.2	23.2	23.0
75°	4.5	6.1	9.0	10.3	12.1	12.7	13.8	13.8	14.6	13.5	13.2
77.5°	3.9	4.7	6.4	7.4	8.2	9.0	9.2	10.1	9.8	9.2	9.5
80°	2.4	2.9	3.9	4.5	5.5	5.8	6.1	6.4	6.1	6.4	6.4
82.5°	1.8	2.1	2.7	2.7	3.5	3.5	3.7	3.7	3.9	3.9	3.9
85°	1.0	1.8	1.6	3.1	2.1	2.1	2.7	3.1	2.7	2.7	3.1
87.5°	1.0	1.0	0.8	1.0	1.0	1.0	1.3	1.6	1.6	1.8	1.6
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°	492.1	492.1	492.1	492.1
2.5°	492.9	493.5	492.7	492.3
5°	493.7	493.7	493.1	493.1
7.5°	493.7	493.7	492.9	492.3
10°	491.6	491.6	490.8	490.2
12.5°	487.6	487.6	487.3	486.5
15°	482.6	482.6	481.6	480.7
17.5°	475.8	476.2	475.0	475.0
20°	468.4	468.0	467.0	466.4
22.5°	460.6	460.2	459.8	458.3
25°	452.4	452.0	451.2	450.4
27.5°	438.4	438.2	437.4	436.4
30°	417.1	416.8	415.8	415.8
32.5°	389.3	389.1	388.0	388.3
35°	360.5	361.6	361.1	360.1
37.5°	336.5	337.3	337.9	337.3
40°	316.5	318.8	319.0	319.6
42.5°	295.0	298.2	299.3	299.8
45°	269.4	272.3	274.8	274.2
47.5°	243.3	245.4	247.5	245.9
50°	218.1	219.5	220.3	220.3
52.5°	194.4	194.4	194.2	194.4
55°	167.3	167.3	166.1	166.7
57.5°	138.7	139.2	138.4	137.1
60°	112.2	111.0	110.4	109.6
62.5°	87.4	87.4	85.5	88.0
65°	65.5	64.7	63.9	63.7
67.5°	47.5	47.3	46.5	46.2
70°	33.5	32.5	32.2	31.7
72.5°	22.4	22.4	22.0	22.0
75°	13.8	12.4	12.1	12.4
77.5°	9.5	9.2	9.2	9.0
80°	6.4	6.1	6.6	5.8
82.5°	3.9	4.3	3.9	4.3
85°	2.7	3.1	2.9	2.9
87.5°	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)